# ESTABILIDAD DE TALUDES EN SUELOS RESIDUALES EVALUADO EN EL CORTO Y LARGO PLAZO

KARLA MARIA OROZCO OLARTE

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## TESIS DE MAESTRÍA PARA OPTAR AL TÍTULO DE MAGÍSTER EN INGENIERÍA

# ASESOR: GLORIA ELENA ECHEVERRI RAMÍREZ

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# RESUMEN

En este trabajo se presentan los resultados de los análisis de estabilidad de taludes obtenidos mediante la comparación en términos del factor de seguridad, con base en los métodos de equilibrio limite y el método de elemento finito, para lo cual, además de considerar diferentes procedimientos de cálculo, se incorporó los aspectos relacionados con los esfuerzos totales y esfuerzos efectivos.

Los análisis se desarrollaron para suelos residuales provenientes de rocas volcánicas de la formación Quebradagrande considerando valores pico y residual en seis casos con estado de esfuerzo diferentes, cuyos parámetros se obtuvieron a través de pruebas triaxiales en diferentes modalidades de carga y drenaje.

#### Palabras claves:

Estabilidad de taludes, estado de esfuerzo triaxiales, resistencia al corte, rocas volcano sedimentario.

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# 1 INTRODUCCIÓN

## 1.1 INTRODUCCIÓN

Cualquier superficie inclinada de una masa de suelo conformada por procesos naturales o artificiales está sujeta a eventos desestabilizantes según actúen en duración e intensidad las perturbaciones externas e internas, las cuales conllevaran a un deterioro progresivo de la resistencia del suelo provocando su falla, que a su vez pueden ser de diferentes tipos como rotacional, traslacional, múltiple, reptación o cedencia lenta, fallas por erosión o fallas por agrietamiento.

Los suelos residuales se encuentran predominantemente en las zonas tropicales, sus propiedades son diferentes a los suelos transportados, por lo general las propiedades de los suelos residuales son controlados por la textura, mineralogía y estructura de la masa original heredadas por el suelo. Específicamente, el comportamiento de los taludes es controlado por las estructuras o rasgos geológicos

Dado que en el territorio colombiano, específicamente en el Valle de Aburrá y sus alrededores aflora un gran porcentaje de suelos residuales con diferentes grado de meteorización expresados geomorfológicamente como colinas y vertientes en suelos residuales altamente incisados, plantean la necesidad de generar una mayor compresión sobre los aspectos de estabilidad de taludes y laderas. Con el fin de contribuir en esta dirección y en las soluciones satisfactorias a los problemas geotécnicos que surgen por los procesos de intervención e interacción entre el terreno y las estructuras, en este proyecto de investigación se evalúa para el caso particular de suelos residuales de rocas volcánicas de la formación Quebradagrande, el análisis de estabilidad de laderas conformadas por estos suelos, bajo la consideración de estados de esfuerzos en el corto y largo plazo. Ya que los mecanismos de falla y la resistencia al corte de los suelos residuales se alteran por efecto de la variación de los esfuerzos cuando éstos se saturan por condiciones de alta precipitación, estos efectos son diferentes en el corto, mediano y largo plazo y se evidencian en la variación de los parámetros involucrados en el factor de seguridad y en la variabilidad de la movilización a lo largo del plano de falla.

El presente documento contiene los resultados obtenidos en las diferentes etapas de ejecución, así, el capítulo 1 corresponde a la introducción, en el capítulo 2, se presenta el estado del arte de la temática trabajada. En el capítulo 3 se desarrolla el marco teórico, que consiste en una recopilación de aspectos fundamentales y conceptos básicos relacionados con la estabilidad de taludes y los suelos residuales. En el capítulo 4 se describe en términos climáticos, geomorfológicos y geológicos la zona de estudio, se presentan los mapas de localización y la sección topográfica del predio, también el perfil de meteorización observado. Hacen parte

de este ítem los ensayos de laboratorio realizados para la caracterización geotécnica y para la identificación del comportamiento mecánico del suelo residual en estudio, estas pruebas de laboratorio básicamente fueron pruebas índices, como límite líquido, limite plástico, contenido de humedad, granulometría, gravedad especifica entre otros, mientras que los ensayos mecánicos consistieron en pruebas triaxiales no consolidadas no drenadas, pruebas triaxiales consolidadas no drenadas y la condición efectiva de triaxial consolidado drenado.

En el capítulo 5, se presenta el análisis de estabilidad en términos del factor de seguridad bajo la consideración de diferentes procedimientos del método de equilibrio límite, el método número del elemento finito y la interpretación en términos comparativos de los métodos de análisis y la variación de los parámetros de resistencia al corte. Finalmente, en el capítulo 6 se presentan las conclusiones de las modelaciones realizadas.

## 1.2 OBJETIVO

Evaluar en forma comparativa el efecto de la variabilidad de los estados de esfuerzo en la estabilidad de taludes conformados por suelos residuales derivados de rocas volcánicas.

## 1.3 METODOLOGÍA

La metodología llevada a cabo para el logro del objetivo propuesto consistió en los siguientes pasos:

- > Revisión de la información existente sobre el tema a desarrollar.
- Estudio geológico de la zona en función de las características litológicas y grado de meteorización.
- Identificación de las condiciones hidrogeológicas del terreno, grado de saturación, presencia de agua en discontinuidades estructurales, zona de recarga y evacuación.
- Estudio topográfico y morfológico, examinando el relieve que permite identificar puntos potencialmente inestables y levantamiento de la geometría de la ladera.
- Exploración y muestro geotécnico, consistente en el levantamiento del perfil de meteorización y la toma de muestras inalteradas en tubo shelby.
- Diseño del trabajo experimental de laboratorio, con el fin de escoger los ensayos pertinentes que permitan la correcta selección de los parámetros geomecánicos.
- Realización de los ensayos de laboratorio para la caracterización del material con base en las propiedades índices y pruebas de resistencia al corte en términos de ensayos triaxiales con diferentes modalidades de carga y drenaje.

- Procesamiento de la información e identificación de la variabilidad de los parámetros de resistencia al corte.
- Análisis de estabilidad de taludes mediante la aplicación de diferentes métodos y la comparación de resultados obtenidos.

# 2 ESTADO DEL ARTE

Los estudios realizados sobre la estabilidad de taludes comenzaron como una necesidad para garantizar la seguridad de las obras de construcción que a través de los años ha evolucionado hasta incorporar los avances tecnológicos para mejorar la precisión de los análisis.

Vauban (1687) estableció reglas empíricas y fórmulas para el diseño y construcción de muros de contención con el fin de resistir las presiones laterales del suelo. Luego Bullet (1691) presentó la primera teoría de empujes de tierra introduciendo el concepto de cuña de deslizamiento, en el que asume que el ángulo de deslizamiento era de 45°, esto más adelante fue demostrado que en la simplificación era desproporcionada, teoría que fue corregida por Coulomb (1773), quién demostró que la cuña de desplazamiento dependía de las propiedades de fricción interna y cohesión del suelo al aplicar el principio de máximos y mínimos a la teoría de la cuña.

Poncelet (1840) demostró la importancia del empuje pasivo mientras estudiaba la falla de un muro de contención, encontrando que la profundidad de desplante debería ser mayor a la que había sido construida; más adelante, Collin (1846) investigó en el campo la estructura interna de los deslizamientos, cuyos estudios mostraron una superficie de falla curva en lugar de una plana.

Cullman (1875) partiendo de la teoría de Coulomb inició investigaciones mediante el estudio del equilibrio límite a través de una solución grafica con el círculo de falla, en la cual se llega al valor máximo de empuje ejercido al muro mediante la división del terreno en cuñas. A partir de la teoría de Cullman se basaron distintas metodologías para hallar en Factor de Seguridad (FS), las cuales se han utilizado y desarrollando hasta hoy, entre ellos: Fellenius (1927) de una manera simple mediante el método de dovelas realiza el equilibrio de fuerzas para hallar el FS del talud, Bishop (1955) desarrolla el método asumiendo que las fuerzas cortantes entre las dovelas son nulas, Lowe y Karafiath (1960) considera que, las fuerzas están inclinadas a un ángulo igual al promedio de la superficie del terreno y la base de las dovelas; Morgenstern y Price (1965) suponen que las fuerzas entre las dovelas varían de acuerdo a una función arbitraria, Spencer (1967) asume que la inclinación de las fuerzas laterales son las mismas para cada dovela pero desconoce su valor; Janbú (1968) también asume que las fuerzas cortantes entre las dovelas son cero, además considera que las superficies de falla no son necesariamente circulares y establece un factor de corrección que depende de la curvatura de la superficie de falla, en alguna casos este factor puede ser fuente de inexactitud para el cálculo del factor de seguridad, no obstante en otros casos tener en cuenta el factor de curvatura representa un mejor análisis: Us Army Corps of Engineers (1970) realizó el equilibrio de fuerzas partiendo que las fuerzas entre dovelas tiene la inclinación del terreno, Sarman (1973) utiliza el método de dovelas para el cálculo de la magnitud de un coeficiente sísmico horizontal requerido para producir la falla; Método General de dovelas (GLE) desarrollado por Fredlund (1981) el cual depende de la selección correcta de una función en la que se describa la variación de las fuerzas entre dovelas para satisfacer el equilibrio (Abramson et al., 2002)

Sabiendo que el equilibrio límite equivale a la relación entre las fuerzas actuantes y las resistentes en una llamada superficie de falla, y conociendo las metodologías propuestas para determinarlo, Clough & Woodward, 1967 aplica el método de elementos finitos en geotecnia luego de encontrar algunas limitaciones en los análisis de situaciones que no habían sido posible identificar utilizando los procedimientos manuales y considerando que estos sistemas reconocen problemas simples con poca información con respecto al mecanismo de falla.

El método de elementos finitos permite tener en cuenta el esfuerzo-deformación, determinando procesos de falla progresiva y aquellos que dependen del tiempo; además evita la presunción de acoger cierta geometría de la superficie de falla. Existen dos métodos de análisis por medio de elementos finitos: el método directo y el método indirecto. Autores como Zienkiewicz (1975), Naylor (1982), Donald and Giam (1988), Matsui and San (1992), Ugai and Leshchinsky (1995), Song (1997), Dawson et al. (1999), Griffiths and Lane (1999) y Zheng et al. (2005), trabajaron en el Método Directo, donde la simulación de falla se determina a través de la reducción progresiva de los parámetros de la resistencia del suelo, sin embargo Wong (1984), menciona la dificultad de obtener factores de seguridad en la falla, encontrando complejidad en este método. Mientras que el método indirecto propuesto por Brown and King (1966) calcula la zona de tensión por análisis de elementos finitos y realiza el cálculo de factor de seguridad global con el método de equilibrio límite.

Lo anterior permite reconocer que aún existe un alto grado de incertidumbre en la aplicación de estos métodos, especialmente en los suelos del trópico, para este caso, en el análisis de suelos residuales, cuyos estudios comenzaron alrededor de 1950 y han sido desarrollados principalmente en Japón, India, Inglaterra, Brasil y Colombia. Autores como Al-Mosawe & Fattah (2005), Keizo et al.(2006), Cai & Takuo, (2005), Cheng et al. (2008), Kupka, Herle, & Arnold, (2008), Y. M. Cheng , N. Li (Cheng et al., 2011), Fredlund et al., (1981), T.S. Tan, K.K. Phoon, D.W. Hight, S. Leroueil, C. R. Cardoso (Cardoso Júnior, 2006), P.J. Rocha, E. Beira, D. de Carvalho, C. Vidrid, A. Lobo, L. Wesley, The Japan landslide society, Himalayan landslide society, The geological society of London, , J. M. Duncan, S. G. Wright, P. Migon, S.R. Hencher, M. Parise, D. Calcaterra, C. D. Ollier, L. Picarrelli, C. Di Maio, W.A. Lacerda, M. S.S. Almeida, M.M. da Silva, H. Rahardjo, A. Satyanaga, N.Y. Song, E.C. Leong, F. Hoyos, J. Suarez, entre otros, han proporcionado valiosas contribuciones técnicas.

Bajo la premisa de que los suelos residuales son el producto de la meteorización y la descomposición de la roca in situ, la cual no ha sido transportada de su localización (Blight, 1997), y definiéndose entonces su análisis desde el estudio de los perfiles de meteorización, diferentes autores han contribuido en la descripción de los perfiles, Love (1951) y Little (1961) para rocas ígneas, Vargas (1951) elaboró un perfil esquemático para rocas ígneas basálticas y areniscas; Sowers (1954,1963) para ígneas y metamórficas, Chanler (1969) para margas y limolitas (González de Vallejo et al., 2004).

Anterior al estudio de los perfiles de meteorización, génesis y análisis de los factores que intervienen en el comportamiento de la resistencia al corte con respecto a los suelos sedimentarios, otros autores trataron temas como la formación y clasificación de los suelos residuales.

En los últimos años en Colombia, se han realizado diferentes estudios sobre suelos residuales, entre los que sobresalen los siguientes: Suarez (1998) investigó sobre el comportamiento de los suelos residuales y se ha enfocado en la caracterización de los parámetros que afectan los deslizamientos en las zonas tropicales, el efecto del clima y los procesos de erosión; Hoyos (2004) estudió sobre los elementos hidrológicos e hidrogeológico en el análisis de estabilidad de laderas, elementos geológicos para la caracterización y diagnóstico de la inestabilidad de taludes y laderas, y realizó la traducción, notas y glosario del libro "Suelos residuales tropicales"; Echeverri (2005), orientó sus estudios a la identificación de la microestructura de dos suelos residuales en rocas ígneas reconociendo los minerales, su distribución dentro del suelo, la resistencia mecánica y las características de formación; González (2005), analizan las propiedades fisicoquímicas mineralógicas, la microestructura V v el comportamiento de dos perfiles de suelo residual originados por rocas metamórficas; Betancur (2006) determinan las propiedades dinámicas y la respuesta del sitio de dos perfiles de meteorización representativos de la facies félsica y autolítica del stock de Altavista; Ramirez y Salcedo (2006), estudiaron las metodologías de equilibrio límite y elementos finitos para determinar las ventajas, desventajas, limitaciones y falencias evaluando dos problemas geotécnicos de la estabilidad de taludes; Argumedo (2009), presenta una metodología de análisis de estabilidad de taludes, en la que considera la variabilidad espacial y la incertidumbre de los parámetros geotécnicos involucrados en el análisis; Rodas (2010), propone metodologías estadísticas para determinar la probabilidad de falla sobre taludes conformados por suelos residuales del Valle de Aburrá y obtiene ábacos que relacionan la probabilidad de falla con sus variables más sensibles y con las características geométricas; Zelaya (2012), analiza el comportamiento estadístico de los procesos de infiltración y su influencia en el desarrollo de fallas superficiales en suelos residuales, los cuales no habían sido tomado en cuenta en este tipo de análisis. Incluir esta incertidumbre permite obtener una metodología para la elaboración de mapas de amenazas y sistemas de alerta temprana.

# **3 BASES CONCEPTUALES**

Para determinar la estabilidad de un talud, se debe calcular el factor de seguridad el cual representa el factor de riesgo y se encuentra calculado en función de las fuerzas resistentes y las fuerzas actuantes.

Los elementos involucrados en la determinación del factor de seguridad dependen del método de cálculo a utilizar, la geometría del talud y el comportamiento mecánico del suelo que obedece a la génesis del material.

## 3.1 METODOS DE CÁLCULO - EQUILIBRIO LÍMITE

El método de equilibrio límite consiste en comparar las fuerzas desestabilizadoras con las fuerzas resistentes cuando la relación entre ambas es igual a la unidad. Los análisis son realizados dividiendo la masa de suelo de la superficie de falla en "n porciones" o "n dovelas"; cada una de estas dovelas estaría afectada por el sistema general de fuerzas.

Todos los métodos de equilibrio límite desarrollados para la estabilidad de taludes son muy similares. La diferencia entre ellos se basa en las ecuaciones estáticas, las cuales son satisfechas de acuerdo con las hipótesis dadas en cada caso con respecto a las fuerzas entre dovelas incluidas y la relación entre las fuerzas cortantes para cada una de estas. En la Figura 3.1 se presenta el esquema del modelo general de fuerzas para cada una de las dovelas y las posibles fuerzas que actúan sobre la misma.



Figura 3.1 Fuerzas que actúan en la dovela. (a) Esquema de una plano potencial de falla. (b) Modelo general de fuerzas en una dovela.

En esta figura:

- b: ancho de la dovela
- u: presión de poros
- W: peso total de cada dovela
- α: ángulo del radio del círculo de falla con la vertical bajo el centroide de cada dovela.
- E<sub>r</sub>: Empuje pasivo actuante en la dovela
- EI: Empuje activo actuante en la dovela
- T<sub>r</sub> y T<sub>I</sub>: Fuerza cortante entre dovelas
- F: Fuerza resistente
- N: Fuerza normal

### Método Ordinario o de Fellenius

Fellenius, (1936) presentó un método analítico usando el equilibrio de dovelas para estimar la estabilidad del talud. La superficie de falla que se plantea es circular, siendo muy impreciso para taludes planos con alta presión de poros y obteniéndose FS bajos. Este método asume que las fuerzas entre las dovelas son iguales y opuestas, cada una de las dovelas esta inclinada a un ángulo paralelo a la base del talud, con esto, solo sería necesario resolver las fuerzas que actúan en la base del talud.

$$FS = \frac{\sum [C'b \sec \alpha + (W \cos \alpha - ub \sec \alpha) \tan \phi]}{\sum W \sin \alpha}$$
(3-1)

De esta forma, las fuerzas que actúan sobre cada dovela son:

- El peso de la dovela
- Parámetros de resistencia del suelo C y  $\phi$  (de forma tangente a la superficie de falla)

Este método falla al satisfacer el equilibrio límite entre cada una de las dovelas cuando la dovela continua tiene diferente inclinación en la base, lo cual presenta cálculos inconsistentes en la presión efectiva en la base de la dovela, adicionalmente pueden producirse errores cuando se tiene presiones de poros altas y si el círculo es profundo o su radio es pequeño.

### Método Bishop Simplificado

Bishop, (1955) presentó un método realizando equilibrio de momentos en las dovelas teniendo en cuenta el efecto de las fuerzas entre las mismas, adicionalmente asume todas las fuerzas de cortante entre dovelas son cero.

Para condiciones razonablemente uniformes y una presión de poros casi constante, se puede suponer que las fuerzas tangenciales entre las dovelas son

iguales y opuestas. Bishop inicia el procedimiento suponiendo un valor para el factor de seguridad y aplica el método de aproximaciones sucesivas en el valor real del factor de seguridad para una determinada superficie de falla.

$$FS = \frac{\sum \left[ C'b + (W - ub)^{\tan \emptyset} / m\alpha \right]}{\sum W \sin \alpha}$$
(3-2)

$$m\alpha = \cos\alpha \left(1 + \frac{\tan\alpha \tan\phi}{F.S}\right) \tag{3-3}$$

El método de Bishop es útil aun cuando el cuerpo del talud está conformado por varios tipos de suelo con valores diferentes de C y  $\phi$  y si la presión de poros en el talud es conocido o puede ser estimado.

Este método satisface el equilibrio de fuerzas verticales para cada una de las dovelas y completa el equilibrio de momentos en el centro de la superficie de falla, el equilibrio de fuerzas horizontales presenta solución sobredeterminada debido a que no se establecen condiciones de equilibrio para la dovela.

#### Método Janbú Simplificado

Janbú, (1968) también asume que no hay fuerzas cortantes entre dovelas, por lo cual satisface el equilibrio de fuerzas verticales para cada dovela, así mismo, asume las fuerzas horizontales para la superficie de masa completa más no el equilibrio de momento global. Janbú a diferencia de Bishop presenta un factor de corrección  $f_{o}$ , el cual está en función de la geometría del talud y los parámetros de resistencia del suelo (Figura 3.2).

$$FS = f_o \frac{\sum \{ [C'b + (W - ub) \tan \phi]^1 / \cos \alpha \cdot m\alpha \}}{\sum W \tan \alpha}$$
(3-4)

Janbú utiliza el factor de corrección  $f_o$  para tener en cuenta un posible error, más adelante presento unos cálculos para hallar el  $f_o$  cuando se tienen superficies de falla con suelos heterogéneos.

$$f_o = 1 + b_1 \left[ \frac{d}{L} - 1.4 \left( \frac{d}{L} \right)^2 \right]$$
(3-5)

b<sub>1</sub> de acuerdo con el tipo de suelo,

- Suelos solamente Cohesivos b<sub>1</sub>=0,69
- Suelos solamente friccionantes
   b<sub>1</sub>=0,31
- Suelos con C y  $\varphi$  b<sub>1</sub>=0,50



Figura 3.2 Factor de corrección fo - Janbú

Método Morgenstern y Price

Morgenstern y Price, (1965) asumieron que las fuerzas laterales siguen un sistema predeterminado. El método es similar al método de Spencer con la diferencia de que se asume que la inclinación de la resultante de las fuerzas entre dovelas varía de acuerdo a una función arbitraria.

Esto lo soluciona considerando que las tensiones y las fuerzas varían continuamente en la superficie, resolviendo la componente normal y cortante paralela a la base de cada dovela realizando equilibrio de fuerzas general (Ecuación 4.6), al igual que el método de Spencer el equilibrio se encuentra de forma que los equilibrios globales de fuerza y de momentos sean iguales  $FS_m = FS_f$ . El método puede ser aplicado para superficies de rotura circular como no circulares.

$$X = E\lambda f(x) \tag{3-6}$$

Donde,

X: Fuerzas verticales entre dovelas

- E: Fuerzas horizontales entre dovelas
- $\lambda$ : Factor de escala

#### Método Spencer

Spencer, (1967) desarrolló su método asumiendo que las fuerzas laterales entre las dovelas son paralelas e inclinadas con respecto a la horizontal de un ángulo  $\Theta$ . El análisis está basado en el cálculo de dos coeficientes de seguridad: el primero con respecto al equilibrio de momentos (FS<sub>m</sub>) y el segundo con respecto al equilibrio de fuerzas (FS<sub>f</sub>); se procede resolviendo FS<sub>m</sub> = FS<sub>f</sub> para el intervalo de valores con respecto al ángulo. Esta relación se realiza mediante un proceso iterativo entre las fuerzas normales y las fuerzas cortantes.

$$\varphi_d = \tan^{-1} \left[ \frac{\tan \varphi}{FS} \right] \tag{3-7}$$

$$N = \frac{c^2}{FS\gamma H}$$
(3-8)

El método satisface rigurosamente el equilibrio estático asumiendo que la fuerza resultante entre dovelas varía de acuerdo con una función arbitraria. El método de Spencer puede ser aplicado cualquier tipo de superficie rotura circular y no circulares.

### 3.2 METODO DE CÁLCULO - ELEMENTOS FINITOS

El método de elementos finitos (MEF) es un método numérico de resolución de ecuaciones diferenciales. La solución obtenida por MEF es sólo aproximada, coincidiendo con la solución exacta sólo en un número finito de puntos llamados nodos. En el resto de puntos que no son nodos, la solución aproximada se obtiene interpolando a partir de los resultados obtenidos para los nodos, lo cual hace que la solución sea sólo aproximada

El conjunto de puntos donde la solución es exacta se denomina conjunto nodos. Dicho conjunto de nodos forma una red, denominada malla formada por retículos. Cada uno de los retículos contenidos en dicha malla es un "elemento finito". El conjunto de nodos se obtiene dividiendo o discretizando la estructura en elementos de forma variada (pueden ser superficies, volúmenes y barras).

En cualquier sistema analizar podemos identificar los siguientes conceptos:

- Dominio: espacio geométrico donde se va analizar el sistema, el cual se divide mediante regiones con formas sencillas o "elementos". El dominio se divide mediante la discretización de rectas (una dimensión), tríangulo o cuadrilátero (dos dimensiones) y un cubo (tres dimensiones).
- Condiciones del contorno: varibles conocidas y que condicionan el cambio del sistema (cargas, desplazamientos, temperatura, voltaje, focos de calor, entre otros)

 Incógnitas: variables del sistema que deseamos conocer despues de que las condiciones del entorno han actuado sobre el sistema (desplazamientos, tensiones, temperaturas, etc.).

Los elementos finitos permiten evaluar cualquier superficie de falla, analizando los esfuerzos y las deformaciones del talud, satisfaciendo todas las condiciones de esfuerzos en cada uno de los nodos.

A continuación se presentan los conceptos principales del MEF:

### 3.2.1 Teoría de deformación

Las ecuaciones básicas que expresan la deformación estática de una masa de suelo son formuladas dentro del marco de la mecánica del medio continuo. Se hacen una restricción teniendo en cuenta que las deformaciones consideradas son pequeñas. Esto activa una formulación con referencia a la geometría inicial del problema, creando un problema continuo, el cual es discretizado con la ayuda del método de elementos finitos.

### 3.2.2 Ecuaciones básicas

El equilibrio estático de un continuo puede ser formulado como

$$L^T \sigma + b = 0 \tag{3-9}$$

Esta ecuación relaciona las derivadas espaciales de las seis componentes del esfuerzo, ensambladas en el vector  $\sigma$ , con las tres componentes de las fuerzas del vector P, L<sup>T</sup> es la transpuesta del operador diferencial, definido como

$$L^{T} = \begin{bmatrix} \frac{\partial}{\partial x} & 0 & 0 & \frac{\partial}{\partial y} & 0 & \frac{\partial}{\partial z} \\ 0 & \frac{\partial}{\partial y} & 0 & \frac{\partial}{\partial x} & \frac{\partial}{\partial z} & 0 \\ 0 & 0 & \frac{\partial}{\partial z} & 0 & \frac{\partial}{\partial y} & \frac{\partial}{\partial x} \end{bmatrix}$$
(3-10)

En adición a la ecuación de equilibrio, la relación cinemática puede ser formulada como:

$$\varepsilon = Lu \tag{3-11}$$

Donde:

ε: vector que contiene las seis componentes de deformación

u: vector que contiene las derivadas de las tres componentes de desplazamiento

L: operador diferencial

En enlace entre las ecuaciones (3-9) y (3-11) se basan en una relación constitutiva que representa el comportamiento del material. La relación general es:

$$\sigma = M\varepsilon \tag{3-12}$$

La combinación de las ecuaciones (3-9), (3-11) y (3-12) lleva a una ecuación diferencial parcial de segundo orden en los desplazamientos u. Sin embargo, en lugar de una combinación directa, la ecuación de equilibrio es reformulada en su forma débil, de acuerdo al principio variacional de Galerkin.

$$\int \delta u^T \left( L^T \sigma + P \right) dV = 0 \tag{3-13}$$

En esta formulación  $\delta u$  representa una variación cinemáticamente admisible de los desplazamientos. Aplicando el teorema de Green para integrar parcialmente el primer término de la ecuación (3-13) lleva a:

$$\int \delta \varepsilon^T \, \sigma dV = \int \delta u^T P dV + \oint \delta u^T t dS \tag{3-14}$$

La ecuación anterior introduce una integral de borde en la "tracción de borde" aparece. Las tres componentes de la tracción de borde son ensambladas en el vector t. La ecuación (3-14) se conoce como la ecuación del trabajo virtual.

El desarrollo del estado de esfuerzo  $\sigma$  puede ser considerado como proceso incremental:

$$\sigma' = \sigma^{i-1} + \Delta \sigma \qquad \Delta \sigma = \int \dot{\sigma} dt \qquad (3-15)$$

En esta relación,  $\sigma'$  representa el estado actual de esfuerzo, el cual es desconocido, y  $\sigma^{i-1}$  el estado anterior de esfuerzo, cuyo valor es conocido. El incremento  $\Delta\sigma$  es la rata de esfuerzo integrada sobre un pequeño intervalo de tiempo.

Si la ecuación (3-14) se considera para el estado actual i, los esfuerzos desconocidos  $\sigma$ ' pueden ser eliminados usando la ecuación (3-15).

$$\int \delta \varepsilon^T \Delta \sigma dV = \int \delta u^T P' dV + \oint \delta u^T t' dS - \int \delta \varepsilon^T \sigma^{i-1} dV$$
(3-16)

Debe notarse que todas las cantidades en las ecuaciones anteriores son funciones de la posición en el espacio tridimensional.

#### 3.2.3 Discretización de los elementos finitos

De acuerdo a la teoría del MEF, el continuo se divide en un número de (volumen) elementos. Cada elemento consiste de un número de nodos; cada nodo tiene un número de grados de libertad que corresponden a valores discretos de las incógnitas en el problema a resolver. En el caso de la teoría de deformación los

grados de libertad corresponden a las componentes de desplazamiento. Dentro de un elemento, el campo de desplazamientos u es obtenido a partir de los valores nodales discretos en un vector v usando funciones de interpolación ensambladas en la matriz N.

$$u = Nv \tag{3-17}$$

Las funciones de interpolación en la matriz N se denotan con frecuencia como funciones de forma. Sustituyendo la ecuación (3-17) en la ecuación cinemática  $\varepsilon = Lu$  (3-11) se tiene que

$$\varepsilon = LNv = Bv \tag{3-18}$$

Donde B es la matriz de interpolación de deformaciones, la cual contiene las derivadas espaciales de las funciones de interpolación. La ecuación (3-16) puede ser reformulada ahora en su forma discretizada, de la siguiente manera

$$\int (B\delta v)^T \Delta \sigma dV = \int (N\delta v)^T P^i dV + \oint (N\delta v)^T t^i dS - \int (B\delta v)^T \sigma^{i-1} dV$$
(3-19)

Los desplazamientos discretos pueden ser colocados fuera de la integral:

$$\delta v^T \int B^T \Delta \sigma dV = \delta v^T \int N^T P^i dV + \delta v^T \oint N^T t^i dS - \delta v^T \int B^T \sigma^{i-1} dV$$
(3-20)

Dado que la ecuación (3-19) se mantiene para cualquier variación cinemáticamente admisible de desplazamiento, se puede escribir:

$$\int B^T \Delta \sigma dV = \int N^T P^i dV + \oint N^T t^i dS - \int B^T \sigma^{i-1} dV$$
(3-21)

La ecuación anterior es la forma discretizada de la condición de equilibrio. El primer término a la derecha junto con el segundo representa el vector de fuerza externa, y el último término el vector de reacción interna del paso anterior. La diferencia entre el vector de fuerza externa y el de reacción interna debe ser balanceada por un incremento de esfuerzo  $\Delta \sigma$ .

La relación entre incrementos de esfuerzo e incrementos de deformación es usualmente no lineal. Como resultado, los incrementos de deformación pueden no ser calculados directamente, y un procedimiento global de integración es requerido para satisfacer la condición de equilibrio (3-21) para todos los puntos del problema.

#### 3.2.4 Integración implícita de los modelos de plasticidad

Los incrementos de esfuerzo  $\Delta \sigma$  se obtienen mediante la integración de las ratas de esfuerzo de acuerdo a la ecuación (3-15). Para los modelos diferenciales de plasticidad, los incrementos de esfuerzo pueden ser escritos como:

$$\Delta \sigma = D^e (\Delta \varepsilon - \Delta \varepsilon^p) \tag{3-22}$$

En esta ecuación D<sup>e</sup> representa la matriz elástica para el incremento de esfuerzo actual. Los incrementos de deformaciones  $\Delta \epsilon$  se obtiene a partir de los incrementos de desplazamientos  $\Delta v$  usando la matriz de interpolación B, similar a la ecuación (3-18).

Para el comportamiento elástico del material, el incremento plástico de deformación  $\Delta \varepsilon^{p}$  es cero. Para el comportamiento plástico, el incremento de desplazamiento puede ser escrito de la siguiente manera, Vermeer (1979).

$$\Delta \varepsilon^{p} = \Delta \lambda \left[ (1 - \omega) \left( \frac{\partial g}{\partial \sigma} \right)^{i-1} + \omega \left( \frac{\partial g}{\partial \sigma} \right)^{i} \right]$$
(3-23)

En la ecuación anterior,  $\Delta\lambda$  es el incremento del multiplicador plástico,  $\omega$  es el parámetro que indica el tipo de integraron en el tiempo. Para  $\omega$ =0 la integración denomina explícita, y para  $\omega$ =1, esta es de tipo implícito.

Usando exclusivamente la integración implícita ( $\omega$ =1), la ecuación (3-23) se reduce a:

$$\Delta \varepsilon^p = \Delta \lambda \left[ \left( \frac{\partial g}{\partial \sigma} \right)^i \right] \tag{3-24}$$

Sustituyendo la ecuación (3-24) y (3-22), y sucesivamente en la (3-15) se obtiene la siguiente ecuación:

$$\sigma^{i} = \sigma^{tr} - \Delta \lambda D^{e} \left(\frac{\partial g}{\partial \sigma}\right)^{i} \qquad \qquad \text{con} \qquad \sigma^{tr} = \sigma^{i-1} + D^{e} \Delta \varepsilon \qquad (3-25)$$

En esta ecuación, el término  $\sigma^{tr}$  es un vector de esfuerzo auxiliar, denominados esfuerzos elásticos, los cuales representan el nuevo estado de esfuerzos cuando se considera comportamiento puramente elástico del material.

El incremento del multiplicador plástico  $\Delta\lambda$  usado en la ecuación (3-25) puede ser resulto a partir de la condición que el nuevo estado de esfuerzos tiene que satisfacer la condición:

$$f(\sigma^i) = 0 \tag{3-26}$$

Para modelos perfectamente plásticos y modelos de "endurecimiento" lineal, el incremento del multiplicador plástico puede ser escrito como:

$$\Delta \lambda = \frac{f(\sigma^{tr})}{d+h} \tag{3-27}$$

Donde:

$$d = \left(\frac{\partial f}{\partial \sigma}\right)^{\sigma^{tr}} D^e \left(\frac{\partial g}{\partial \sigma}\right)^i \tag{3-28}$$

El símbolo h denota el parámetro de endurecimiento, el cual es cero para modelos perfectamente plásticos, y constante para modelos de "endurecimiento" lineal. En el segundo caso, el estado de esfuerzo nuevo puede ser formulado como:

$$\sigma' = \sigma^{tr} - \frac{\langle f(\sigma^{tr}) \rangle}{d+h} D^e \left(\frac{\partial g}{\partial \sigma}\right)^i$$
(3-29)

Donde los corchetes ( ) se conocen como corchetes de McCauley, con la siguiente convención:

$$\langle x \rangle = 0 \operatorname{Para} x \le 0$$
 y  $\langle x \rangle = x \operatorname{Para} x > 0$ 

#### 3.2.5 Proceso global de iteración

La sustitución de la relación entre incrementos de deformación y esfuerzo,  $\Delta\sigma=M\Delta\epsilon$ , en la ecuación de equilibrio (3-21) lleva a:

$$K^{i}\Delta v^{i} = f_{ex}^{i} - f_{in}^{i-1}$$
(3-30)

En esta ecuación K es la matriz de rigidez,  $\Delta v$  es el vector de desplazamientos incrementales y f<sub>in</sub> es el vector de reacciones interna. El superíndice *i* se refiere al número del paso actual. Sin embargo, ya que la relación entre incrementos de esfuerzo y deformaciones es generalmente no lineal, la matriz de rigidez no puede ser formulada de forma directa. Por lo tanto, se requiere un proceso de iteración global para satisfacer la condición de equilibrio y la relación constitutiva. El proceso de iteración puede ser expresado como:

$$K^{j}\delta v^{j} = f_{ex}^{i} - f_{in}^{j-1}$$
(3-31)

Donde el superíndice *j* se refiere al número de iteración.  $\delta v$  es un vector que contiene desplazamientos sub-incrementales, los cuales contribuyen a los incrementos del paso *i*:

$$\Delta v^i = \sum_{j=1}^n \delta v^j \tag{3-32}$$

Donde *n* representa el número de iteraciones dentro del paso *i*. La matriz de rigidez representa el comportamiento del material en una manera aproximada. Mientras más precisa sea la matriz de rigidez, se tendrán que hacer menos iteraciones para obtener el equilibrio dentro de cierta tolerancia.

En su forma más simple, la matriz de rigidez representa una respuesta linealelástica. En este caso la matriz de rigidez puede ser formulada como:  $K = \int B^T D^e B dV$ 

Donde D<sup>e</sup> es la matriz elástica del material, de acuerdo con la ley de Hooke y B es la matriz de interpolación de deformaciones. El uso de una matriz de rigidez elástica da un proceso de interpolación robusto siempre y cuando la rigidez del material no aumente, aun cuando se usen modelos plásticos.

Técnicas especiales, tales como control de la longitud de arco (Risk,1979), sobrerelajación y extrapolación (Vermeer y Van Langen, 1989) pueden ser usadas para mejorar el proceso de iteración. Para modelos de materiales con comportamiento lineal en el dominio elástico, tal como el modelo de Mohr-Coulomb, el uso de la matriz de rigidez elástica es particularmente favorable, ya que la matriz de rigidez necesita formarse y se descompone antes de la primera etapa de cálculo.

#### 3.3 EQUILIBRIO LIMITE VERSUS ELEMENTOS FINITOS PARA EL ANALISIS DE ESTABILIDAD DE LADERAS

Numerosos métodos se han desarrollado para el análisis de la estabilidad de taludes en las últimas cinco décadas, aunque cada uno de estos se basa en los principios de equilibrio estático, sus resultados en cuanto a los factores de seguridad varían debido a las diferencias en el planteamiento de sus hipótesis.

Ching et al., 1984 compara los factores de seguridad obtenidos por los métodos de Fellenius, Bishop simplificado, Janbú simplificado, Janbú generalizado, Spencer y Morgenstern – Price para dos casos. El primero para taludes conformados por suelos friccionantes, la superficie de falla plana y paralela a la pendiente del talud. El segundo en taludes planos con una superficie de falla circular profunda y conformados por suelos cohesivos.

Los resultados obtenidos fueron:

- Para el caso de suelos friccionantes todos los resultados de los métodos de dovelas dieron factores de seguridad iguales. El caso de suelos cohesivos, los métodos que satisfacen el equilibrio de momentos o equilibrio de fuerzas y momentos, dan factores de seguridad idénticos, pero los métodos de equilibrio de fuerzas dan valores diferentes dependiendo de las suposiciones en las fuerzas laterales.
- Para círculos de falla bajos las diferencias en los valores de los coeficientes de estabilidad (m y n) son usualmente bajas, menores del 10%
- Para círculos de falla profundos los resultados son variables, los valores de m y n por el método de Fellenius y Bishop simplificado tienen un rango de 5% a 20%; para Janbú simplificado y Bishop simplificado están en el orden de 5% a 10%; y los demás métodos comparados con Bishop simplificado menores al 5%.

Fredlund et al., 1981 comparan los métodos de Fellenius, Bishop simplificado, Spencer, Corps of Engineers y Morgenstern – Price con el método general de dovelas (GLE); los resultados obtenidos son:

- Morgenstern Price consideró un talud de 12,2 m de altura y una pendiente 2:1 primero con falla circular y suelo homogéneo, después lo modificó utilizando un estrato duro a 1.5 m debajo del pie del talud, la diferencia promedio en los factores de seguridad con el método GLE es menor al 0,01
- Método de Spencer consideró primero una falla circular para el cual se obtuvieron los mismos valores del factor seguridad; luego forzó la superficie de falla a pasar por un estrato rocoso mostrando resultados muy similares en los factores de seguridad.
- Método de Bishop simplificado obtuvo que al satisfacer el equilibrio de fuerzas y momentos el factor de seguridad disminuye a medida que la superficie de falla en particular tiene una porción plana.
- La comparación con el método del Corps of Engineers demostró que el factor de seguridad está altamente influenciado por la suposición de las fuerzas laterales comparado con el factor de seguridad por equilibrio de momentos.

Con base en estos resultados y según Fredlund et al., se concluyó que las ecuaciones para los factores de seguridad de todos los métodos de dovelas pueden ser escritas en la misma forma siempre y cuando se satisface el equilibrio de momentos y/o fuerzas

En los últimos años el método de elementos finitos empezó a ser utilizado ampliamente para problemas geotécnicos comunes. El procedimiento  $\varphi$ , c-reduction consiste en reducir los parámetros c y  $\varphi$  progresivamente hasta la no convergencia del cálculo determinando así el factor de seguridad y la superficie crítica de deslizamiento, Kupka et al., 2008 presenta un análisis de sensibilidad entre el método tradicional de dovelas y el  $\varphi$ , c-reduction en el cual se determinó que para geometrías y condiciones estratigráficas simples el método de  $\varphi$ , c-reduction presenta resultados similares. Sin embargo, los resultados de  $\varphi$ , c-reduction son sensibles a la discretización de la malla y los criterios de convergencia indicando la importancia de una correcta determinación de los parámetros de resistencia para poder obtener resultados sensatos.

#### 3.4 GEOMETRIA

Los métodos de cálculo para determinar el factor de seguridad se encuentran en función de las características geométricas del talud, es por esto que al modificar factores como la altura o pendiente pueden aumentar o disminuir su factor de riesgo.

La variación en la altura del talud se ve representada en el número de superficies potenciales de falla, lo cual se refleja en un aumento o disminución de las fuerzas desestabilizadoras actuantes en el talud. De la misma manera las variaciones en las pendientes alteran el peso y las fuerzas actuantes en cada una de las dovelas. Por lo que es necesario para el análisis de estabilidad de taludes definir las condiciones topográficas y morfológicas del relieve con detalle de modo que muestre las condiciones más realistas.

## 3.5 COMPORTAMIENTO MECÁNICO

La mecánica de suelos tradicional ha demostrado que una correcta determinación de la resistencia al esfuerzo cortante de la masa de suelo es un punto fundamental en la estabilidad de una obra.

La evaluación de las condiciones de esfuerzo límite permiten establecer hipótesis sobre el tipo de falla que puede ocurrir en el suelo, ya sea por fractura o por flujo plástico lo cual se puede determinar mediante la gráfica de los esfuerzos cortantes y las deformaciones. A continuación se presentan las teorías de falla basadas en el esfuerzo máximo normal y el esfuerzo máximo cortante.

- Teoría del máximo esfuerzo normal: este criterio de falla propuesto por Rankine supone que la falla está determinada por el esfuerzo mayor principal y puede darse tanto para fallas por fractura como plástica.
- Teoría del máximo esfuerzo cortante: el criterio de falla está determinado por el esfuerzo cortante máximo.

La teoría de Guest supuso que el esfuerzo cortante depende de una constante del material y la falla está determinada por este o la diferencia entre los esfuerzos principales; la teoría de Coulomb está determinada mediante el plano actuante cuando el esfuerzo cortante alcanza un valor máximo, esta teoría también es atribuida a Navier en la cual se dice que dicho esfuerzo depende del esfuerzo normal que actúa en el plano de falla y que existe una variación lineal entre ambos esfuerzos; la teoría de Mohr determina la falla cuando la relación del esfuerzo tangencial al normal alcance un valor máximo y dichos valores están en función del arreglo y forma de sus materiales; la teoría de Von Mises supone que hay un esfuerzo octaédrico limite constante que define la resistencia del material, dicha teoría solo ha funcionado correctamente en metales dúctiles.

### 3.5.1 RESISTENCIA AL ESFUERZO CORTANTE

Para evaluar la resistencia al esfuerzo cortante en suelos finogranulares existen dos enfoques. Uno de ellos consiste en considerar que la resistencia depende esencialmente del esfuerzo efectivo, de la trayectoria de esfuerzos y de la velocidad de deformación. El predominio del primer factor, se expresa con el principio de los esfuerzos efectivos que conduce a modificar la ley empírica de Coulomb mediante la siguiente expresión

$$\tau_f = c'' + (\sigma - \mu) \tan \phi'$$

Donde

 $T_f$  = Esfuerzo cortante en el plano de falla

 $\sigma$  = Esfuerzo normal total sobre el plano considerado

c = Cohesión aparente

 $\Phi'$  = Ángulo de fricción aparente

 $\mu$  = Presión de poro

El segundo enfoque expresa el hecho experimental que la resistencia de un suelo cohesivo que se deforma a volumen constante, depende principalmente de su historia previa de carga, de la trayectoria de esfuerzos y de la velocidad de deformación en este caso la ley de resistencia se expresa en términos de esfuerzos totales así:

$$\tau_f = c + \sigma \tan \phi$$

Donde c y  $\Phi$  no son propiedades del material, sino función de sus características de la historia de carga previa y de las condiciones de drenaje.

#### 3.5.2 ENSAYOS TRIAXIALES

La prueba de compresión triaxial descrita por Bishop y Henkel, (1962), se realizan con el fin de determinar los parámetros geomecánicos de los suelos, por medio del comportamiento de la curva de esfuerzo-deformación y la curva esfuerzo normal versus esfuerzo cortante.

Estos ensayos de laboratorio, se pueden ejecutar para representar diferentes tipos de tensiones, condiciones de drenaje, velocidad de aplicación de carga, simulando así las alteraciones que pueden ocurrir en el suelo por efecto de las diferentes obras civiles.

La prueba triaxial consiste en tomar una muestra de suelo de forma cilíndrica con relación de esbeltez entre el diámetro y la altura de 2 a 2.5, y aislar el agua de la muestra del agua de la cámara mediante una membrana de látex, y aplicar presiones laterales y axiales diferentes.

Las pruebas triaxiales se realizan en varias etapas, las cuales consisten en saturación, consolidación y falla.

La etapa de saturación, consiste en generar una contrapresión hasta lograr la saturación de la muestra, lo cual se verifica con los parámetros de presión poros A y B propuestos por Skempton. En la segunda etapa se consolida la muestra al aplicar una presión hidrostática en todas las direcciones y se permite el cambio de volumen bajo estas condiciones isotrópicas. En la última etapa, la muestra se lleva a la rotura mediante la aplicación del esfuerzo desviador con carga monotónica creciente, pero manteniendo la presión de confinamiento constante.

Los ensayos triaxiales se clasifican según las condiciones de drenaje durante las etapas de prueba.

> Modalidad no consolidada no drenada UU

En ninguna etapa del ensayo se permite que la muestra drene, por lo tanto no hay disipación de la presión de poro durante la aplicación de presión de cámara isotrópica ni durante la aplicación de la carga axial.

Modalidad consolidad no drenada CU

En este caso, primero se satura la probeta, se incrementa posteriormente la presión hidrostática de la cámara y bajo estas condiciones isotrópicas se consolida la muestra, durante esta etapa se mide el cambio de volumen. Luego se aplica el esfuerzo axial sin disipación de la presión de poro, y se lleva la muestra a la falla por el incremento del esfuerzo desviador.

Modalidad consolidado drenada CD

En esta modalidad se satura la muestra y se procede a consolidarla para cada valor del esfuerzo isotrópico, después de medir el cambio volumétrico se inicia la etapa de falla mediante la aplicación de carga axial, la cual se aplica lentamente para evitar un exceso de presión de poro ya que se debe garantizar la disipación de la sobrepresión intersticial de modo que los esfuerzos efectivos sean iguales a los esfuerzos totales.

#### 3.6 TRAYECTORIAS DE ESFUERZOS

Las trayectorias de esfuerzo permiten estudiar el comportamiento del suelo mediante el cambio de esfuerzos que se produce por un ciclo de carga, las trayectorias de esfuerzo toman varias formas que dependen del tipo de análisis solicitado, las cuales varían según las condiciones de drenaje o consolidación del suelo.

#### 3.6.1 Trayectorias de esfuerzo - deformación

La trayectoria de esfuerzo - deformación del suelo depende de la secuencia a la cual suceden los cambios de esfuerzo y permite identificar el tipo de falla que se puede generar en el talud.

"Los suelos sueltos en compresión presentan en general características de endurecimiento por deformación, es decir, se contraen y se tornan más rígidos. El comportamiento del suelo al corte es más complejo y depende mucho de la densidad. En las arenas compactadas y las arcillas preconsolidadas es probable que se presente una falla por fragilidad en forma de deslizamiento al corte, en el esfuerzo máximo. En suelos sueltos se lleva a cabo contracción hasta el punto cedente y después se tiene deformación continua bajo esfuerzo ultimo o menor". (Whitlow, 1994)

#### 3.6.2 Trayectorias de esfuerzo q'/p'

Las trayectorias de esfuerzos q'/p' a diferencia de las demás permite hallar los parámetros geomecánicos del suelo a través de la interpolación lineal de los esfuerzos promedio y desviador máximo simulando las condiciones reales de los esfuerzos en la prueba triaxial.

Para hallar los esfuerzos se tiene:

$$p' = \frac{1}{3}(\sigma'_1 + 2\sigma'_3) \tag{3-34}$$

$$q = \sigma'_1 - \sigma'_3 \tag{3-35}$$

Para determinar los parámetros geomecánicos se tiene:

$$\varphi = \sin^{-1}(\tan \alpha) \tag{3-36}$$

Donde:

$$\alpha = \tan^{-1} pendiente \tag{3-37}$$

Y para hallar C se tiene que

$$C = \frac{a}{\cos\varphi} \tag{3-38}$$

# 4 INVESTIGACIÓN DE CAMPO Y LABORATORIO

En este numeral se presenta la información de la zona de estudio en términos de las características bioclimáticas, geológicas, geomorfológicas y condiciones morfodinámicas; así como los resultados de los ensayos de laboratorio realizados para determinar la variabilidad de los estados de esfuerzos en el corto y largo plazo.

### 4.1 INVESTIGACIÓN DE CAMPO

El área del proyecto se encuentra ubicada en el área rural del municipio de Caldas en la vereda La Quiebra, sector La Escondida, aproximadamente a 1930 msnm y a 4 km de la cabecera municipal de Caldas (Antioquia). Fisiográficamente hace parte de la cuenca alta del río Aburrá margen izquierda y de la cuenca de la quebrada La Legía; como se ilustra en la Figura 4.1.



Figura 4.1 Ubicación del área de estudio

Al sitio se accede por la vía a Piedraverde (Km 1+450 en el sentido La Tolva-Amagá), que es una vía terciaria que se desprende de la Vía Troncal del Café que conduce al municipio de Amagá y al sector La Escondida de la vereda La Quiebra.

Con base en la información bioclimática, según el documento Técnico del Plan Básico de Ordenamiento territorial del Municipio de Caldas, las mayores precipitaciones de la cuenca del río Aburrá (río Medellín) se presentan en el costado sur del valle en el municipio de Caldas, debido a que en esta zona confluyen las masas de aire Cauca y del Magdalena, las cuales se enfrían al chocar con las montañas del sur, ocasionando un alto porcentaje de precipitación. El municipio de Caldas registra precipitaciones promedio del orden de 2400 mm/año (POMCA, 2006) (Área Metropolitana del Valle de Áburra, 2006).

En el Valle de Aburrá el ciclo anual de lluvias tiene un patrón bimodal característico con picos lluviosos en abril y octubre y periodos secos en los meses de enero y febrero, junio y julio. Para Caldas el periodo de lluvias con precipitaciones máximas, comprende abril a junio y de septiembre a noviembre.

La temperatura promedio del municipio de Caldas es de 19°C. La zona sur se caracteriza por temperaturas que van de medias a bajas según la altitud.

De acuerdo con la clasificación de Holdridge, 1947, el área de estudio se encuentra en la zona de vida Bosque Húmedo Montano Bajo (bh-MB) o tierra fría húmeda, definida por alturas entre 1000 msnm y 2000 msnm, temperaturas medias anuales entre 12°C y 18°C y precipitación media entre 1000 mm y 2000 mm anuales. En los alrededores se encuentra el Alto de San Miguel, éste hace parte de zona de vida Bosque Muy Húmedo Montano Bajo (bmh-MB), con condiciones similares de temperatura y altitud, pero con precipitaciones medias que oscilan entre 2000 y 4000 mm anual.

Para enmarcar las condiciones climáticas del entorno cercano del proyecto, se resalta que el Alto de San Miguel tiene un régimen de precipitaciones que oscila entre los 2000 mm y 3500 mm al año, con dos temporadas de alta pluviosidad en mayo y otra en octubre, y dos períodos menos lluviosos a principio y mediados de año. La temperatura promedio es de 16°C.

Según las Planchas geológicas 166, 167, 186 y 187 de Ingeominas, 2005, en los alrededores del área de estudio afloran las rocas volcánicas de La Formación Quebradagrande, de naturaleza volcanosedimentario y origen marino; también metamórficas unidad cartografiada rocas representadas por la como Metasedimentitas de Sinifaná, rocas intrusivas del Monzogranito de Amagá, y en menor extensión el Miembro Inferior de la Formación Amagá de tipo sedimentario. En la Figura 4.2 se presenta de acuerdo con la planchas geológicas mencionadas anteriormente el esquema en planta del área de estudio; se observa que la zona de interés en esta investigación está asentada en el área conformada por las rocas volcánicas.



Figura 4.2 Esquema geológico regional de la zona de estudio

El Miembro volcánico del Complejo Quebradagrande (K1qgv), fue descrita por Grosse (1926) con el nombre de Formación Porfirítica; por Botero (1963) como Formación Quebradagrande y por Maya y González (1995) como Complejo Quebradagrande. Agrupa rocas volcánicas y sedimentarias que afloran como una faja larga y estrecha en el falco occidental de la cordillera central. Está constituido por espilitas, diabasas, basaltos y rocas piroclásticas con intercalaciones de cherts, areniscas lodosas líticas, arenitas feldespáticas y limolitas, (González, 1996).

En el municipio de Caldas aflora parte del miembro volcánico, atravesándolo en dirección NW-SE y cubriendo la mayoría de las veredas localizadas en el costado occidental. Está representado en rocas basálticas, esencialmente toleíticas (ricas en sílice y sin olivino), intercaladas con andesitas y tobas de lapilli, que por efectos de fallamiento se encuentran diaclasados o muy fracturados. (Consorcio Microzonificación, 2006).

Estructuralmente estas rocas desarrollan una tendencia general definida por una foliación milonítica, con rumbo NNW a NNE, y buzamientos que varían entre 37º y 83º dominantemente al SE. En los alrededores del área de estudio, en el sector occidental se encuentra afectado por las falla de Romeral, Minas y San Jerónimo.

Las rocas volcánicas tipo basaltos y andesitas son de color gris verdoso oscuro a verde oliva grisáceo; la resistencia de la roca es fuerte y la textura de su superficie es cristalina; la roca presenta ligera alteración a minerales de arcilla. El grado de fracturamiento es moderadamente fracturado a muy fracturado, por efectos tectónicos a veces exhiben texturas esquistosas. En algunos sitios, el nivel III-roca fresca del perfil de meteorización según Deere, tiene un espesor de 10 y 17 m (Maya, 2003).

Los suelos provenientes de estas rocas son limoarcillosos de color rojizo a pardo amarillento, ocasionalmente con motas claras y acumulaciones de óxidos.

Afloran también depósitos de vertiente y depósitos aluviales derivados de la dinámica erosiva e hidrológica de las cuencas de esta parte de la subregión del suroeste.

Específicamente en el sitio de la exploración, afloran suelos residuales del Miembro Volcánico de la Formación Quebrada Grande, algunos depósitos de vertiente y algunos depósitos antrópicos.

Suelos derivados del Miembro Volcánico del Complejo Quebradagrande. En el predio se encontraron suelos residuales y saprolitos derivados de la alteración in situ de rocas basálticas de esta unidad litológica. En algunos sitios se observan bloques de basaltos, aglomerados y tobas, en estado fresco (meteorización baja) que hacen parte de los depósitos de vertiente. (Figura 4.3)



Figura 4.3 Perfil estratigráfico obtenido en campo

- Depósitos de vertiente. Están conformados por una matriz masiva color amarillo rojizo de apariencia moteada y zonas grises, textura limo arenosa con zonas arcillosas que contiene bloques angulares y subangulares hasta de 30 cm de roca volcánica en estado fresco; la relación matriz:bloques es de 90:10, aproximadamente. Hacia la parte baja del predio se identificó un depósito de vertiente tipo flujo de lodos de 2,5 m de espesor que reposa sobre el saprolito de roca volcánica.
- Depósitos antrópicos. En algunos sitios aledaños a los cortes de las vías internas del predio, por ejemplo, en el costado noreste del mismo, se identificaron algunas zonas de depósitos antrópicos conformados por el material de corte de los taludes, los cuales presentan las mismas características de los suelos residuales que afloran en el sitio.

De acuerdo con Mapa Geomorfológico, de Amenazas y Área Degradadas de la Jurisdicción de Corantioquia, (2002) a escala 1:100.000, el área de estudio hace parte de la unidad geomorfológica: vertientes continuas y onduladas del cañón del río Porce (C2-VCvo), Localizada en el nacimiento del río Medellín al Occidente y la quebrada Minas al Oriente.

A nivel regional, esta unidad se caracteriza por una vertiente con alturas entre 1800 msnm y 2600 msnm, de formas onduladas, inclinaciones entre 16° y 25°, longitudes de 1500 m y 2000 m; los valles son de sección transversal en "V" abierta con un diferencia de altura entre 25 m y 75 m. Geológicamente se desarrollan sobre las rocas volcánicas del Complejo Quebradagrande. Los principales procesos son erosión laminar, deslizamientos asociados a procesos de erosión lateral de las quebradas de la zona. El esquema de la Figura 4.4 muestra la localización de dicha unidad.


Figura 4.4 Localización de la zona de estudio con respecto a la unidad de vertientes continuas y onduladas del cañón del río Porce

En la zona de estudio, el relieve es montañoso, de cimas redondeadas, laderas largas, de pendientes fuertes hasta de 30°, formas rectas y convexas, cañones de incisión media (menor de 50 m) y sección transversal en "V" abierta. En condiciones húmedas presenta susceptibilidad a los movimientos lento del suelo tipo solifluxión, favorecidos por la composición arcillosa del suelo residual. La plasticidad de los suelos residuales favorece, bajo condiciones saturadas movimientos lentos del suelo, tipo solifluxión, los cuales podrían generar desplazamientos y deformaciones de la masa de escombros que allí se depositen, lo que refleja la necesidad de dar un manejo adecuado a las aguas superficiales y subsuperficiales que fluyan por el predio. En términos generales, el grado de erosión es moderado a bajo. Se identificaron los siguientes procesos morfodinámicos que se describen en la Figura 4.5:

<ul> <li>a. En la panorámica de la zona de estudio se puede ver el relieve montañoso, con cimas redondeadas y laderas largas con pendientes hasta del 30°</li> </ul>	
<ul> <li>b. Procesos de erosión laminar por la falta de cobertura vegetal asociada a la tala de bosque (pinos), rastrojos altos y a la apertura de accesos al predio.</li> </ul>	
<ul> <li>c. Zonas húmedas hacia la parte baja de la ladera en algunos cambios de pendiente, entre la ladera y la zona de inundación y en el fondo de algunas vaguadas.</li> </ul>	Humadal
d. Movimientos lentos de suelo, se manifiestan con escalonamientos ocasionales en el terreno, los cuales dan una apariencia irregular al relieve, se presentan especialmente en las partes bajas, en condiciones de alta humedad.	
Figura 4.5 Procesos geor (b) Procesos de erosión. (c)	morfológicos. (a) Panorámica de la zona de estudio. Zonas húmedas. (d) Escalonamientos en el terreno.

### 4.2 INVESTIGACIÓN DE LABORATORIO

Para los fines de esta investigación se realizó un muestreo con tubos shelby a través de un apique ubicado en la cota 992 en el que la roca se ha meteorizado hasta el nivel suelo residual con poca textura del material parental. Se presentan de color rojizo con motas de feldespato alterado y óxidos de manganeso.

La caracterización del suelo investigado, se hizo con base en los resultados de las propiedades índices medida en el laboratorio y cuyos resultados se indican en la Tabla 4.1. El material clasifica según el Sistema de Clasificación Unificado (U.S.C) como un suelo limoso de alta plasticidad (MH).

Sondeo	Muestra	Profundidad (m)	w <sub>liquido</sub> (%)	w <sub>plastico</sub> (%)	IP	w <sub>natural</sub> (%)	I <sub>f</sub>	l <sub>r</sub>	% pasa 200	Gs
1.00	1.00	1.50	73.44	48.89	24.55	49.83	0.04	0.96		2 67
1.00	2.00	1.50	72.39	45.68	26.72	55.31	0.36	0.64	95.54	2.07
1.00	3.00	1.53	72.98	44.90	28.08	52.86	0.28	0.72		2.74
1.00	4.00	1.80	73.44	36.87	36.57	51.29	0.39	0.61	90.84	2.60

Tabla 4.1 Propiedades Índices

Con el fin de determinar las características del suelo residual y el comportamiento ante diferentes estados de esfuerzo y diferentes condiciones de saturación se ejecutaron seis ensayos triaxiales de compresión triaxial con carga monotónica creciente hasta la falla, en las siguientes modalidades:

- Un ensayo triaxial no consolidado no drenado (UU), parcialmente saturado; con velocidad de aplicación de carga de 0.3 mm/min
- Un ensayo triaxial no consolidado no drenado, saturado (UU) ; con velocidad de aplicación de carga de 0.3 mm/min
- Un ensayo triaxial consolidado no drenado (CU), con OCR=1.0; con velocidad de aplicación de carga de 0.1 mm/min
- Un ensayo triaxial consolidado no drenado (CU), con OCR=1.5; con velocidad de aplicación de carga de 0.1 mm/min
- Un ensayo triaxial consolidado no drenado (CU), con OCR=2.0; con velocidad de aplicación de carga de 0.1 mm/min
- Un ensayo triaxial consolidado drenado (CD); con velocidad de aplicación de carga de 0.04 mm/min

Los resultados de las seis pruebas triaxiales se presentan utilizando diferentes trayectorias, se graficó la relación deformación unitaria versus la presión de poro, y deformación unitaria versus el esfuerzo desviador.

La relación de esfuerzos principales, se realizó en la región normalmente consolidada y preconsolidada según el caso a través de trayectorias p - q. Para todos los casos se determinó la relación q/p en la falla para valores pico y residual, en esfuerzos efectivos y en esfuerzos totales. En la Tabla 4.2 se presentan los

parámetros de resistencia al corte para cada uno de los estados de esfuerzo obtenidos mediante las trayectorias p - q, en términos de los esfuerzos efectivos y de los esfuerzos totales considerando los valores pico y residual.

Las gráficas de las trayectorias se ilustran en las figuras 4.6, 4.7, 4.8, 4.9, 4.10 y 4.11. En estas figuras se aprecian que el exceso de presión de poro por encima de la hidrostática causada por los cambios en los esfuerzos muestran un incremento en la presión de poro con la deformación unitaria axial, hasta un máximo correspondiente el 5% o menos de la deformación axial, siendo más evidente esta respuesta en las muestras de mayor confinamiento. Algunas muestras primero acumulan valores positivos presentando luego disminuciones subsecuentes, con algunos valores negativos, esto se evidencia en los bajos confinamientos.

Las curvas de esfuerzo desviador contra deformación axial permiten observar un comportamiento dúctil, en el que no se manifiesta con claridad un aumento significativo de la rigidez del limo residual con el incremento de la presión de confinamiento.

Las trayectorias de esfuerzos p – q se obtuvieron graficando el esfuerzo octaédrico contra el esfuerzo desviador. En pruebas de compresión triaxial estos parámetros se expresan a partir de los esfuerzos principales donde p es igual a un tercio de la suma del esfuerzo principal mayor y dos veces el esfuerzo principal menor y q resulta de las diferencias entre los esfuerzos principales. Las trayectorias muestran el comportamiento típico de materiales normalmente consolidados, indicando que los efectos de preconsolidación inducidos a las muestras en el laboratorio, con valores de OCR que identifican los ensayos, están por debajo de la carga de preconsolidación en campo.

La variabilidad de los parámetros de resistencia para cada uno de los triaxiales en diferentes modalidades presentan variaciones altas, los parámetros de resistencia obtenidos de la trayectoria p – q demuestran que  $\phi$  y c no son constantes de los materiales, evidenciando que son propiedades en función de la historia de carga previa, de la trayectoria de esfuerzos, de las condiciones de drenaje y de la velocidad de deformación.

Con el fin de considerar los efectos de la precipitación en la variación de los parámetros de resistencia al corte, ya que en la zona de estudio se tiene un patrón bimodal característico con picos lluviosos, se realizó el ensayo triaxial UU con la muestra saturada, simulando de esta forma las condiciones de estabilidad en el corto plazo. Los resultados arrojaron una reducción del 60% en los valores de los parámetros al compararlos con los resultados del ensayo triaxial UU en condiciones parcialmente saturadas, como se puede apreciar en la Tabla 4.2.

								Esfuerzos efectivos			Esfuerzo	os totales		
V.,	ν.		w		Wasser	Sauce	Pi	со	Resi	dual	Pic	0	Resid	lual
(g/cm <sup>3</sup> )	(g/cm <sup>3</sup> )	e	(%)	S (%)	(%)	Spost-falla (%)	C (kg/cm²)	ф(°)	C (kg/cm²)	ቀ (°)	C (kg/cm²)	ቀ (°)	C (kg/cm²)	ቀ (°)
						I	NODALIC	DAD UU						
1.77	1.22	1.19	45.26	99.68	48.38	106.57								
1.73	1.16	1.31	49.83	99.63	47.75	95.48	1.48	11.47	1.32	10.35	1.49	11.99	1.35	9.59
1.74	1.19	1.23	46	97.44	47.87	101.4								
	MODALIDAD UU SATURADO													
1.74	1.18	1.25	47.3	98.63	51.46	107.42								
1.78	1.19	1.24	49.2	103.48	48.87	102.86	0.87	9.9	0.84	9.8	1.17	6.87	0.79	7.3
1.76	1.13	1.36	55.3	106.77	51.12	98.7								
						MOD	ALIDAD C	U - OCR	=1.0					
1.71	1.13	1.35	50.9	98.54	51.06	98.93								
1.72	1.15	1.32	49.09	97.35	49.87	98.89	0.39	37.14	0.42	30.91	0.94	21.05	0.783	21.14
1.77	1.16	1.3	52.86	106.12	48.21	96.79								
						MOD	ALIDAD C	U - OCR	=1.5					
1.78	1.18	1.26	51.06	105.69	50.16	103.84								
1.74	1.16	1.3	49.65	99.93	47.74	96.08	0.34	34.98	0.3	33.49	0.8	25.54	0.74	22.8
1.77	1.18	1.25	49.12	102.49	45.66	95.27								
						MOD	ALIDAD C	U - OCR	=2.0					
1.76	1.19	1.24	48.1	101.21	52.36	110.22								
1.77	1.17	1.28	51.09	104.77	51.11	104.81	0.69	27.16	0.607	25.68	0.73	19.84	0.82	18.88
1.73	1.14	1.34	51.29	100.3	45.1	88.2								
	MODALIDAD CD													
1.78	1.28	1.09	39.3	95.23	42.16	102.12								
1.77	1.25	1.14	41.85	96.84	40.55	93.83	0.33	32.98	0.27	30.22	-	-	-	-
1.82	1.3	1.05	39.54	99.62	36.81	92.73								

### Tabla 4.2 Propiedades de resistencia



(C)

Figura 4.6 Resultados del ensayo triaxial no consolidado no drenado con humedad natural. (a) Variación de la presión de poro con la deformación unitaria. (b) Relación esfuerzo deformación. (c) Trayectorias p-q





Figura 4.7 Resultados del ensayo triaxial no consolidado no drenado saturado. (a) Variación de la presión de poro con la deformación unitaria. (b) Relación esfuerzo deformación. (c) Trayectorias p-q



Figura 4.8 Resultados del ensayo triaxial consolidado no drenado con OCR=1.0. (a) Variación de la presión de poro con la deformación unitaria. (b) Relación esfuerzo deformación. (c) Trayectorias p-q



Figura 4.9 Resultados del ensayo triaxial Consolidado no drenado con OCR=1.5. (a) Variación de la presión de poro con la deformación unitaria. (b) Relación esfuerzo deformación. (c) Trayectorias p-q



(C)

Figura 4.10 Resultados del ensayo triaxial Consolidado no drenado con OCR=2.0. (a) Variación de la presión de poro con la deformación unitaria. (b) Relación esfuerzo deformación. (c) Trayectorias p-q



Figura 4.11 Resultados del ensayo triaxial consolidado drenado. (a) Variación de la presión de poro con la deformación unitaria. (b) Relación esfuerzo deformación. (c) Trayectorias p-q

### 5 ANALISIS DE ESTABILIDAD

El análisis de estabilidad se realizó para la sección topográfica indicada en la Figura 5.1 con una altura de 50 m, una distancia horizontal de 230 m y para todas las modelaciones se tomo un nivel freático que oscila entre los 10 m y 30 m como se presenta en la Figura 5.1, esta sección corresponde la condición topográfica más crítica del área de estudio. Para esta geometría se simuló considerando los parámetros de resistencia al corte obtenidos para cada uno de los seis ensayos triaxiales realizados cuyos resultados, se expresan en términos de esfuerzos octaédricos a través de las trayectorias p-q, como se explicó en el capítulo anterior. El cálculo del factor de seguridad se realizó por el método de equilibrio límite y por el método de elementos finitos.

Teniendo en cuenta que el perfil de meteorización de la formación Quebradagrande es relativamente homogéneo y que en la ladera no se presentan superficies potenciales de falla, las modelaciones por el método de equilibrio límite fueron realizadas planteando una superficie de falla circular.



Figura 5.1 Sección de la ladera

#### 5.1 CÁLCULO DEL FACTOR DE SEGURIDAD CON BASE EN EL MÉTODO DE EQUILIBRIO LÍMITE

Para la modelación se utilizó la teorías de Fellenius, Bishop simplificado, Janbú, Morgenstern – Price y Spencer. Los análisis de estabilidad se llevaron a cabo mediante el software Slide V.6 desarrollado por la Rocscience Inc., el cual resuelve problemas bidimensionales considerando las teorías enunciadas y diferentes mecanismos de falla. En esta investigación el análisis se hizo solo para el mecanismo de falla circular, los resultados obtenidos se indican en la Tabla 5.1 Con el fin de visualizar las superficies de falla criticas potenciales de deslizamiento se presentan los resultados gráficos de la modelación para los diferentes métodos, los valores picos efectivos y picos totales de los casos estudiados como se ilustra en la Figura 5.2 Fellenius, Figura 5.3 Bishop simplificado, Figura 5.4 Janbú, Figura 5.5 Morgenstern – Price y Figura 5.6 Spencer.

	FACTOR DE SEGURIDAD					
	Esfuerzos efectivos pico	Esfuerzos efectivos residuales	Esfuerzos totales pico	Esfuerzos totales residuales		
	PARA	METROS - TRIAXIAL UU HUMEDA	ND NATURAL			
Fellenius	1.446	1.311	1.49	1.287		
Bishop Simplificado	1.515	1.374	1.566	1.349		
Janbu	1.398	1.267	1.442	1.249		
Morgenstern - Price	1.51	1.369	1.56	1.344		
Spencer	1.509	1.368	1.56	1.343		
	F	PARAMETROS - TRIAXIAL UU SAT	URADO			
Fellenius	0.961	0.938	1.042	0.807		
Bishop Simplificado	1.018	0.995	1.086	0.852		
Janbu	0.933	0.912	1.012	0.786		
Morgenstern - Price	1.016	0.994	1.083	0.849		
Spencer	1.016	0.993	1.081	0.85		
		PARAMETROS - TRIAXIAL CU - OC	CR=1.0			
Fellenius	1.595	1.367	1.449	1.351		
Bishop Simplificado	1.767	1.509	1.563	1.463		
Janbu	1.586	1.356	1.42	1.33		
Morgenstern - Price	1.766	1.506	1.562	1.46		
Spencer	1.763	1.507	1.562	1.464		
		PARAMETROS - TRIAXIAL CU - OC	CR=1.5			
Fellenius	1.432	1.342	1.52	1.366		
Bishop Simplificado	1.587	1.486	1.656	1.487		
Janbu	1.423	1.334	1.503	1.35		
Morgenstern - Price	1.588	1.484	1.655	1.488		
Spencer	1.584	1.483	1.658	1.489		
		PARAMETROS - TRIAXIAL CU - OC	CR=2.0			
Fellenius	1.483	1.364	1.248	1.281		
Bishop Simplificado	1.625	1.497	1.349	1.382		
Janbu	1.468	1.352	1.226	1.258		
Morgenstern - Price	1.623	1.495	1.344	1.379		
Spencer	1.625	1.498	1.35	1.382		
PARAMETROS - TRIAXIAL CD						
Fellenius	1.358	1.203	-	-		
<b>Bishop Simplificado</b>	1.504	1.334	-	-		
Janbu	1.35	1.195	-	-		
Morgenstern - Price	1.503	1.331	-	-		
Spencer	1.501	1.329	-	-		

Tabla 5.1Factores de seguridad obtenido mediante teorías de equilibrio limite.



Figura 5.2 Superficies de falla críticas para esfuerzos efectivos pico y esfuerzos totales pico mediante el método de Fellenius.



Figura 5.3 Superficies de falla críticas para esfuerzos efectivos pico y esfuerzos totales pico mediante el método de Bishop simplificado.



Figura 5.4 Superficies de falla críticas para esfuerzos efectivos pico y esfuerzos totales pico mediante el método de Janbú.



Figura 5.5 Superficies de falla críticas para esfuerzos efectivos pico y esfuerzos totales pico mediante el método de Morgenstern – Price.



Figura 5.6 Superficies de falla críticas para esfuerzos efectivos pico y esfuerzos totales pico mediante el método de Spencer.

# 5.2 CALCULO DEL FACTOR DE SEGURIDAD POR EL METODO DE ELEMENTOS FINITOS

Los análisis de estabilidad se llevaron a cabo mediante el software Plaxis 8.2 desarrollado por la empresa del mismo nombre, el cual resuelve problemas bidimensionales mediante la división de la masa de suelo para lo cual se conformó una malla como se presenta en Figura 5.7, la superficie de falla es obtenida mediante la reducción progresiva de los parámetros del suelo o por el aumento de la sobrecarga del suelo. Los resultados obtenidos se indican en la Tabla 5.2 en términos del factor de seguridad.

Considerando los resultados de los ensayos realizados, este factor de seguridad se calculó tanto para condiciones a corto plazo como condiciones a largo plazo. En la Figura 5.8 se presenta las superficies de falla para los esfuerzos efectivos pico y esfuerzos totales pico.



Figura 5.7 Discretización de la malla para la sección topográfica.

FACTOR DE SEGURIDAD							
PARAMETROS - TRIAXIAL UU HUMEDAD NATURAL							
Esfuerzos efectivos picos	Esfuerzos efectivos picos 🛛 Esfuerzos efectivos residuales 🛛 Esfuerzos totales picos 🖉 Esfuerzos totales residua						
1.453	1.297	1.508	1.331				
	<b>PARAMETROS - TRIAXIA</b>	L UU SATURADO					
Esfuerzos efectivos picos	Esfuerzos efectivos residuales	Esfuerzos totales picos	Esfuerzos totales residual				
0.99	0.966	1.097	0.86				
	PARAMETROS - TRIAXIAL CU - OCR=1.0						
Esfuerzos efectivos picos	sfuerzos efectivos picos Esfuerzos efectivos residuales Esfuerzos totales picos						
1.71	1.473	1.474	1.358				
	PARAMETROS - TRIAXIAL CU - OCR=1.5						
Esfuerzos efectivos picos	Esfuerzos efectivos residuales	Esfuerzos totales picos	Esfuerzos totales residual				
1.557	1.448	1.504	1.372				
PARAMETROS - TRIAXIAL CU - OCR=2.0							
Esfuerzos efectivos picos	Esfuerzos efectivos residuales	Esfuerzos totales picos	Esfuerzos totales residual				
1.574	1.437	1.272	1.308				
PARAMETROS - TRIAXIAL CD							
Esfuerzos efectivos picos	Esfuerzos efectivos residuales	Esfuerzos totales picos	Esfuerzos totales residual				
1.461	1.281	-	-				

	Fabla 5.2	Factores de seguridad	l obtenidos	mediante el	ementos finitos
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Figura 5.8 Superficies de falla para esfuerzos efectivos pico y esfuerzos totales pico mediante el método de elementos finitos.

#### 5.3 COMPARACIÓN ENTRE LOS FACTORES DE SEGURIDAD OBTENIDOS MEDIANTE EQUILIBRIO LÍMITE Y ELEMENTO FINITO

Los resultados comparativos entre cada método de equilibrio límite con respecto al método de elementos finitos se presentan en forma gráfica como se muestran en las Figura 5.9 a la Figura 5.14 para los seis casos de estudio. De estas figuras se observa que las diferencias del factor de seguridad calculado con los métodos de equilibrio límite y el calculado con método del elemento finito no son significativas. En general los valores del factor de seguridad obtenidos por el método de Fellenius y Janbú son menores comparados con los valores del factor de seguridad obtenidos con las teorías Bishop simplificado, Morgenstern – Price y Spencer son ligeramente mayor que los valores calculados con la técnica numérica del elemento finito.

La reducción de los parámetros de resistencia al corte en condiciones saturadas, no consolidadas, no drenadas conllevaba a que el talud se encuentra cercano al equilibrio límite independiente del método de análisis lo cual se observa en la Figura 5.10.



Figura 5.9 Comparación de factores de seguridad entre el método de elementos finitos y el método de equilibrio limite usando los parámetros de resistencia al corte obtenido a partir del ensayo triaxial UU, con las muestra parcialmente saturada



Figura 5.10 Comparación de factores de seguridad entre el método de elementos finitos y el método de equilibrio limite usando los parámetros de resistencia al corte obtenidos a partir del ensayo triaxial UU saturado, con las muestra parcialmente saturada



Figura 5.11 Comparación de factores de seguridad entre el método de elementos finitos y el método de equilibrio limite usando los parámetros de resistencia al corte obtenidos a partir del ensayo triaxial CU, con OCR=1



Figura 5.12 Comparación de factores de seguridad entre el método de elementos finitos y el método de equilibrio limite usando los parámetros de resistencia al corte obtenidos a partir del ensayo triaxial CU, con OCR=1.5



Figura 5.13 Comparación de factores de seguridad entre el método de elementos finitos y el método de equilibrio limite usando los parámetros de resistencia al corte obtenidos a partir del ensayo triaxial CU, con OCR=2.0



Figura 5.14 Comparación de factores de seguridad entre el método de elementos finitos y el método de equilibrio limite usando los parámetros de resistencia al corte obtenidos a partir del ensayo triaxial CD.

### 6 CONCLUSIONES

Basados en las modelaciones realizadas por el método de equilibrio límite y el método de elementos finitos se observa que las diferencias del factor de seguridad calculado no son significativos y se evidencia la importancia de una correcta determinación de los parámetros de resistencia para poder obtener resultados razonables.

La variabilidad de los parámetros de resistencia para cada uno de los triaxiales en diferentes modalidades presentan variaciones altas, demostrando que la historia de carga, las condiciones de drenaje, las perturbaciones externas e internan determinan la estabilidad de la ladera; por lo cual se hace necesario realizar una caracterización detallada del perfil estratigráfico y escoger los ensayos pertinentes para determinar la resistencia al corte del suelo obteniendo una mayor precisión y confiabilidad en los resultados de análisis.

Los resultados de los factores de seguridad obtenidos mediante para cada uno de los métodos de equilibrio límite y elementos finitos para los diferentes ensayos triaxiales fueron:

Fellenius presenta un factor de seguridad menor que el obtenido mediante el método de elementos finitos.

Las variaciones del factor de seguridad calculadas según los parámetros obtenidos para cada una de las pruebas triaxiales fueron: en el triaxial UU con humedad natural se obtuvo 1% para los esfuerzos efectivos y entre el 1% - 3% para los esfuerzos totales. Los parámetros del ensayo triaxial UU saturado obtuvieron una variación del 3% para los esfuerzos efectivos y entre el 5% - 7% para los esfuerzos totales. En los ensayos triaxiales CU con diferentes OCR se obtuvieron variaciones entre el 5% - 8% para esfuerzos efectivos, y del 0.5% - 2% para esfuerzos totales; finalmente para los parámetros obtenidos por el ensayo triaxial CD se presentó una variación entre el 6% - 7%.

Bishop simplificado presenta un factor de seguridad mayor que el obtenido mediante el método de elementos finitos.

Las variaciones del factor de seguridad calculadas según los parámetros obtenidos para cada una de las pruebas triaxiales fueron: en el triaxial UU con humedad natural se obtuvo entre 4% - 6% para los esfuerzos efectivos y entre el 2% - 4% para los esfuerzos totales. Los parámetros del ensayo triaxial UU saturado obtuvieron una variación del 3% para los esfuerzos efectivos del 1%

para los esfuerzos totales. En los ensayos triaxiales CU con diferentes OCR se obtuvieron variaciones entre el 2% - 4% para esfuerzos efectivos, y del 5% -9% para esfuerzos totales; finalmente para los parámetros obtenidos por el ensayo triaxial CD se presentó una variación entre el 3% - 4%.

Janbú al igual que Fellenius presenta todos sus factores de seguridad menores a los obtenidos por método de elementos finitos.

Las variaciones del factor de seguridad calculadas según los parámetros obtenidos para cada una de las pruebas triaxiales fueron: en el triaxial UU con humedad natural se obtuvo entre el 2% - 4% para los esfuerzos efectivos y entre el 4% - 6% para los esfuerzos totales. Los parámetros del ensayo triaxial UU saturado obtuvieron una variación del 6% para los esfuerzos efectivos y entre el 8% - 9% para los esfuerzos totales. En los ensayos triaxiales CU con diferentes OCR se obtuvieron variaciones del 1% con los parámetros obtenidos para un OCR de 2 en el cual se alcanzaron variaciones hasta del 7% para esfuerzos efectivos, y del 1% - 4% para esfuerzos totales; finalmente para los parámetros obtenidos por el ensayo triaxial CD se presentó una variación entre el 7% - 8%.

Morgenstern – Price y Spencer presentan sus factores de seguridad muy similares, y mayores a los obtenidos por el método de elementos finitos.

Las variaciones de los factores de seguridad de los métodos de equilibrio límite y elementos finitos para cada uno de los parámetros obtenidos en las pruebas triaxiales fueron: en el triaxial UU con humedad natural se obtuvo entre 3% - 6% para los esfuerzos efectivos y entre el 1% - 4% para los esfuerzos totales. Los parámetros del ensayo triaxial UU saturado obtuvieron una variación del 3% para los esfuerzos efectivos del 2% para los esfuerzos totales. En los ensayos triaxiales CU con diferentes OCR se obtuvieron variaciones entre el 2% - 4% para esfuerzos efectivos, y del 5% - 10% para esfuerzos totales; y por el ensayo triaxial CD se presentó una variación entre el 2% - 4%.

Con el fin de que los resultados experimentales realizados en esta investigación puedan tener utilidad en investigaciones futuras, se anexa el registro de datos de los ensayos triaxiales.

### 7 Bibliografía

- Abramson, L. W., Lee, T. S., Sharma, S., & Boyce, G. N. (2002). *Slope Stability* and *Stabilization Methos.* New York: John Wiley & Sons, Inc.
- Al-Mosawe, M. J., & Fattah, M. Y. (2005). Effect od loads on the stability of cohesive slopes in undrained condition. *Journal of enginereeing Volume II*, (págs 61-78).
- Área Metropolitana del Valle de Áburra. (2006). *Plan de Ordenamiento y Manejo de la cuenca del Río Aburrá.* Medellín: Área Metropolitana del Vallé de Aburrá. pp 679.
- Argumedo, A. Q. (2009). *Análisis probabilístico de estabilidad de taludes.* Bogotá: Universidad de los Andes. pp 145.
- Betancur Betancourt, G. A. (2006). *Caracterización dinámica de suelos residuales en el stock de Altavista.* Medellin: Universidad Nacional. pp143.
- Bishop, A. W. (1955). The use of the slip circle in the stability analysis of slopes. *Geotechnique*, *5*(1), (págs 7-17).
- Bishop, A. W., & Henkel, D. J. (1962). *The measurament of soil properties in the triaxial test* (2nd Ed. ed.). Londres: Edward Arnold (Publisers) LTD. pp 227.
- Blight, G. E. (1997). *Mechanics of residual soils* (1st Ed. ed.). Rotterddam: AA Balkema.
- Cai, J. J., & Takuo, Y. (2005). Three dimensional limit equilibrium slope stability analysis: simplified methods vs rigorous methods. *Journal of the Japan landslide society No. 2 Vol 42*, (págs 27-33).
- Caldas, M. d. (2010). *Plan de básico de Ordenamiento Territorial.* Caldas: Administración Municipal de Caldas.
- Cardoso Júnior, C. R. (2006). Estudo do comportamento de um solo residual de Gnaisse nao saturado para avaliar a influencia da infiltracao na estabilidade de taludes. Sao Paulo: Universidade Sao Paulo.
- Carnicero, A. (2006). Apuntes Introducción al método de elementos finitos. Madrid. Universidad Pontificia ICAI.
- Cheng, Y. M., & Lau, C. K. (2008). *Slope stability analysis and stabilization: new methods an insight.* New York, London: Routledge Taylor & Francis group. pp 260.

- Cheng, Y. M., & Li, N. (2011). Parallel processing for 3D slope stability. *The third International conference on future computional technologies and aplications* (págs. 37-41). Rome: IARIA Journals.
- Ching, R., & Fredlund, D. (1984). Quantitative comparison of limit equilibrium methods of slices. (págs. 373-379). Toronto: Proceeding of the fourth international symposium on landslides.
- Clough, R. W., & Woodward, R. J. (1967). Analysis of Embankment Stresses and deformation. Berkeley, California: Soil Mechanics and bituminous materials laboratory, University of California. pp 74.
- Consorcio Microzonificación. (2006). Estudio de Microzonificación sísmica detallada de los Municipios de Barbosa, Girardota, Copacaba, Sabaneta, La Estrella, Caldas y Envigado. Medellín: Área Metropolitana del Valle de Aburrá. pp 679.
- Corantioquia. (2002). Mapa geomorfológico de amenazas y área degradadas de la jurisdicción de Corantioquia. Medellín.
- Echeverri, Ó. (2005). Efecto de la microestructura en los parámetros de resistenccia al esfuerzo cortante e algunos suelos provenientes de rocas ígneas presentes en Medellín. Medellin: Universidad Nacional de Medellín. pp 89.
- Fellenius, W. (1936). Calculation of the stability of earth dams. 2nd International congress on large dams (págs. 445-459). Washington D.C: International commission on large dams.
- Fredlund, D., Krahn, J., & Pufahl, D. (1981). The relationship between limit equilibrium slope stability methods. *3*, (págs 409-416).
- González de Vallejo, L. I., Ferrer, M., Ortuño, L., & Oteo, C. (2004). *Ingeniería Geológica*. Madrid: Pearson Educación S.A. pp 715.
- González, Y. V. (2005). Influencia de la meteorización en las propiedades y comportamiento de dos perfiles de alteracion originados de rocas metamorficas. Medellín: Universidad Nacional sede Medellín. pp 111.
- Holdridge, L. (4 de Abril de 1947). Determination of world plant formations from simple climatic data. (S. magazine, Ed.) *Science, 105*(2727), (págs 367-368).
- Hoyos, F. (2004). *Suelos Residuales Tropicales.* Medellín: Hombre Nuevo Editores. pp 235.

- Ingeominas. (2005). Complementación geológica, geoquímica y geofisica de las planchas 166, 167, 186 y 187. Bogotá.
- Janbú, N. (1968). *Slope stability computation.* The technical university of Norway. Trondheim: Soil mechanics and foundation report.
- Juárez, E., & Rico, A. (2012). *Mecánica de suelos. Tomo I.* México, D.F: Editorial Limusa. pp 642
- Keizo, U., Akihiko, W., & Fei, C. (2006). Numerical analysis methods for slope stability during earthquake and rainfall. *Journal Tsuchi to Kiso No. 10 Vol* 54, (págs 15-17).
- Kupka, M., Herle, I., & Arnold, M. (2008). Advanced calculations of safety factors for slope stability. The 12th International conference for computer merhods and advances in geomechanics (págs. 4470-4477). Goa: IACMAG.
- Lowe, J., & Karafiath, R. V. (1960). Stability of dam upon drawdown. Proceeding of the first Pan Amarican Conference on Soil Mechanics and Foundation Engineering, (págs. 537-552). Mexico.
- Morgenstern, N. R., & Price, V. E. (1965). The analysis of the stability of general Slip Surfaces. *Geotechnique*, *15*(1), (págs 77-93).
- PLAXIS (2011). Plaxis Scientific Manual. (págs 7 -11)
- Ramirez, R. G., & Salcedo Barreto, Y. (2006). Comparación de los métodos de esfuerzo-deformación y equilibrio limite en la modelación de estabilidad de taludes utilizando los software Plaxis y Slope. Bucaramanga: Universidad Industrial de Santander.
- Riks, E. (1979). An incremental approach to the solution of snapping and buckling problems. Int. J. Solids & Strucr., 15. (págs 529-551)
- Rodas, J. P. (2010). Evaluación de la probabilidad de falla sobre taludes de suelos residuales representaticos del Valle de Aburrá. Medellín: Universidad Nacional. pp 55.
- Spencer, E. (1967). A method of Analysis of the stability of embankments, Assuming Parallel Interslice Forces. *Geotechnique*, *17*(1), (págs 11-26).
- Suarez, J. (1998). *Deslizamientos y estabilidad de taludes en zonas tropicales.* Bucaramanga: Instituto de investigaciones sobe Erosión y Deslizamientos. pp 540.

- Vermeer, P.A.,& van Langen, H.(1989). Soil collapse computations with finite elements. Ingenieur-Archiv 59. (págs 221-236)
- Whitlow, R. (1994). *Fundamentos de Mecánica de suelos.* México, D.F: Compañía editrial continental, S.A. de C.V. pp 589.
- Zelaya, L. J. (2012). Análisis probabilístico de fallas superficiales en taludes debido a procesos de infiltración. Bogotá: Pontificia Universidad Javeriana. pp 91.

## ANEXOS

#### TRIAXIAL ESTATICO UU INV E153

Fecha 8-mar.-2013

	Variabilidad en el co	ariabilidad en el corto y largo plazo del estado de esfuerzos en laderas					
Proyecto:	conformadas por su	elos residuales		Localización:	Caldas, Antioquia		
Sondeo	1	Muestra:	1	Profundidad:	1,5 m		
Descripción de l	a Muestra:	Limo de alta compresibilid	ad color rojizo con	motas amarillentas y zonas negras			

	P	rimer Incr
Datos de la muestra		
Diámetro (cm)	4.778	
Altura (cm)	10.06	
Area (cm <sup>2</sup> )	17.93	
Volumen (cm <sup>2</sup> )	180.42	
Humedad (%)	45.26	
Peso del suelo humedo (g)	319.99	
Peso del suelo seco (g)	220.3	
Masa unitaria húmeda (g/cm <sup>3</sup> )	1.77	
Masa unitaria seca (g/cm <sup>2</sup> )	1.22	
Gravedad especifica	2.74	
Relación de vacios	1.24	
Saturación (%)	99.68	

1	emento				
	Datos del Ensayo				
	Presión de poros inducida (kgf/cm <sup>2</sup> )	0.00			
	Presión de cámara (kgf/cm <sup>2</sup> )	0.50			
	Presión efectiva (kgf/cm <sup>2</sup> )	0.50			
	Parámetro B	0			
	Vel. de aplicación de carga (mm/min)	0.3			

Humedad Post-falla	
Peso suelo humedo + tara (g)	392.42
Peso suelo seco + tara (g)	288.14
Peso tara (g)	72.61
Humedad Post-falla (%)	48.38
Saturación (%)	106.57

Segu					
Datos de la muestra					
Diámetro (cm)	4.79				
Altura (cm)	10.11				
Area (cm <sup>2</sup> )	17.985				
Volumen (cm <sup>3</sup> )	181.88	]			
Humedad (%)	49.83				
Peso del suelo humedo (g)	315.02				
Peso del suelo seco (g)	210.26				
Masa unitaria húmeda (g/cm <sup>*</sup> )	1.73	]			
Masa unitaria seca (g/cm <sup>8</sup> )	1.16	1			
Gravedad especifica	2.74	]			
Relación de vacios	1.37				
Saturación (%)	99.63				

c	remento				
	Datos del Ensayo				
	Presión de poros inducida (kgf/cm <sup>2</sup> )	0.0			
	Presión de cámara (kgf/cm <sup>2</sup> )	1.0			
	Presión efectiva (kgf/cm <sup>2</sup> )	1.0			
	Parámetro B	0			
	Vel. de aplicación de carga (mm/min)	0.3			

Humedad Post-falla							
Peso suelo humedo + tara (g)	386.20						
Peso suelo seco + tara (g)	284.50						
Peso tara (g)	71.51						
Humedad Post-falla (%)	47.75						
Saturación (%)	95.48						

	T	ercer inc
Datos de la muestra		
Diámetro (cm)	4.828	[
Altura (cm)	10.02	
Area (cm <sup>2</sup> )	18.30	
Volumen (cm <sup>3</sup> )	183.46	
Humedad (%)	46	
Peso del suelo humedo (g)	320	
Peso del suelo seco (g)	219.18	

r	remento						
	Datos del Ensayo						
	Presión de poros inducida (kgf/cm <sup>2</sup> )	0.0					
	Presión de cámara (kgt/cm <sup>2</sup> )	2.0					
	Presión efectiva (kgf/cm <sup>2</sup> )	2.0					
	Parámetro 8	0					
	Vel. de aplicación de carga (mm/min)	0.3					

Masa unitaria húmeda (g/cm <sup>3</sup> )	1.74
Masa unitaria seca (g/cm <sup>8</sup> )	1.19
Gravedad específica	2.74
Relación de vacios	1.29
Saturación (%)	97.44

Humedad Post-falla								
Peso suelo humedo + tara (g)	393.40							
Peso suelo seco + tara (g)	290.67							
Peso tara (g)	76.06							
Humedad Post-falla (%)	47.87							
Saturación (%)	101.40							

Etapa de falla primer incremento											
Part and the	Deform.	Celda	Presión	Incremento	Defen	Åres	Esfuerzo	a'3	- 61	:1	Estuerzo
(mm)	Unitaria	Cargo	de poros	de poros	Uniteda	Corregida	Desviedor	Efectivo	Efectivo	Total	Promedio
Arrest A	5	N	(kPa)	(lugt/cm <sup>2</sup> )	Contrast in	(cm²)	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm*)	(kgt/cm <sup>*</sup> )
0.00	0.00	0	0	0.00	0.000000	17.93	0.000	0.500	0.500	0.500	0.500
80.0	0.08	36	1	0.00	0.000785	17.94	0.205	0.497	0.702	0.705	0.599
0.14	0.14	48	1	0.01	0.001421	17.95	0.273	0.494	0.767	0.773	0.631
0.22	0.21	57	1	0.01	0.002136	17.97	0.323	0.492	0.815	0.823	0.653
0.29	0.29	66	1	0.01	0.002852	17.98	0.374	0.492	0.866	0.874	0.679
0.36	0.36	74	1	0.01	0.003567	17.99	0.419	0.489	0.908	0.919	0.698
0.44	0.44	82	2	0.01	0.004352	18.01	0.464	0.486	0.950	0.964	0.718
0.52	0.51	88	2	0.02	0.005137	18.02	0.498	0.480	0.978	0.998	0.729
0.59	0.59	93	3	0.03	0.005853	18.03	0.526	0.472	0.998	1.026	0.735
0.67	0.66	99	4	0.03	0.006638	18.05	0.559	0.467	1.026	1.059	0.746
0.75	0.74	104	4	0.04	0.007423	18.06	0.587	0.461	1.048	1.087	0.754
0.83	0.82	109	5	0.04	0.008208	18.08	0.615	0.455	1.070	1.115	0.763
0.91	0.91	114	5	0.05	0.009063	18.09	0.642	0.450	1.092	1.142	0.771
0.99	0.98	118	6	0.06	0.009848	18.11	0.664	0.444	1.109	1.164	0.776
1.07	1.06	122	6	0.06	0.010633	18.12	0.686	0.441	1.128	1.186	0.785
1.15	1.14	126	7	0.06	0.011418	18.14	0.708	0.436	1.144	1.208	0.790
1.23	1.22	130	7	0.07	0.012203	18.15	0.730	0.433	1.163	1.230	0.798
1.31	1.30	134	8	0.07	0.012988	18.16	0.752	0.428	1.180	1.252	0.804
1.38	1.37	137	8	0.08	0.013703	18.18	0.768	0.422	1.190	1.268	0.806
1.45	1.44	140	8	0.08	0.014419	18.19	0.785	0.419	1.204	1.285	0.811
1.53	1.52	145		0.09	0.015204	18.20	0.812	0.411	1.223	1.312	0.817
1.60	1.59	150	10	0.09	0.015909	18.22	0.839	0.405	1.245	1.339	0.825
1.67	1.66	155	10	0.10	0.016625	18.23	0.867	0.400	1.266	1.367	0.833
1.75	1.73	160	11	0.10	0.017340	18.24	0.894	0.397	1.291	1.394	0.844
1.82	1.81	164	11	0.11	0.018056	18.26	0.916	0.391	1.307	1.416	0.849
1.89	1.88	169	11	0.11	0.018771	18.27	0.943	0.389	1.331	1.443	0.860
1.97	1.96	173	12	0.11	0.019556	18.29	0.964	0.386	1.350	1.464	0.868
2.04	2.03	177	12	0.12	0.020272	18.30	0.986	0.380	1.366	1.486	0.873
2.11	2.10	181	13	0.12	0.020977	18.31	1.008	0.377	1.385	1.508	0.881
2.19	2.18	185	13	0.13	0.021762	18.33	1.035	0.375	1.409	1.535	0.892
2.26	2.25	189	13	0.13	0.022478	18.34	1.050	0.375	1.425	1.550	0.900
2.34	2.33	194	13	0.13	0.023263	18.36	1.077	0.369	1.446	1.577	0.908
2.41	2.40	197	13	0.13	0.023978	18.37	1.093	0.369	1.462	1.593	0.916
2.49	2.47	201	14	0.13	0.024694	18.38	1.115	0.366	1.481	1.615	0.924
2.56	2.55	206	- 14	0.14	0.025479	18.40	1.141	0.363	1.505	1.641	0.934
2.64	2.63	209	- 14	0.14	0.026264	18.41	1.157	0.361	1.518	1.657	0.939
2.72	2.70	212	14	0.14	0.026979	18.43	1.173	0.358	1.531	1.673	0.944
2.79	2.78	215	- 14	0.14	0.027764	18.44	1.189	0.358	1.546	1.689	0.952
2.87	2.85	218	15	0.14	0.028480	18.45	1.204	0.355	1.559	1.704	0.957
2.95	2.93	222	15	0.14	0.029265	18.47	1.225	0.355	1.580	1.725	0.968
3.02	3.00	224	15	0.15	0.030050	18.48	1.235	0.352	1.588	1.735	0.970
3.10	3.08	227	15	0.15	0.030755	18.50	1.251	0.352	1.603	1.751	0.978
3.17	3.15	230	15	0.15	0.031540	18.51	1.266	0.350	1.616	1.766	0.983

	Deform.	Gelda	Presión	Incremento		Åres	Estuerzo	13	11	a1	Estuerzo
Deformación	Unitaria	Carro	de poros	de poros	Deform.	Correctide	Dervindor	Efectivo	Efectivo	Total	Promedio
(mm)	5	N	(k2n)	(kurf/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kart/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(ket/cm <sup>2</sup> )
9.76	9.19	202	16	0.15	0.020266	19.53	1 177	0.947	1,619	1 777	0.025
3.33	3.30	234	16	0.15	0.033041	18.54	1,287	0.347	1.633	1,787	0.990
3.40	3 9 8	297	16	0.16	0.033826	18.56	1 302	0.944	1.646	1.802	0.995
3.48	3.45	239	16	0.16	0.034541	18.57	1 312	0.341	1653	1.812	0.997
9 66	9 6 9	2.41	16	0.16	0.025236	10 50	1 222	0.241	1 6 6 9	1 933	1.000
3.63	3.60	243	16	0.16	0.036042	18.60	1 882	0.338	1670	1 832	1.004
3.71	368	345	16	0.16	0.036827	18.61	1 342	0 338	1.680	1.842	1.009
2.77	2.75	3.49	16	0.16	0.027472	19.69	1.267	0.999	1.000	1 957	1.017
3.84	3.82	250	17	0.16	0.038178	18.64	1 367	0.336	1 703	1.857	1.019
2.00	2.00	363	17	0.17	0.0200420	19.55	1 277	0.222	1 710	1 977	1.031
2.92	2.90	100	17	0.17	0.030563	19.00	1.207	0.333	1.736	1 993	1.021
4.07	4.04	257	17	0.17	0.040394	18.68	1.402	0.333	1.735	1.902	1.024
4.14	4.13	360	17	0.17	0.041170	19.70	1.413	0.000	1 7.45	1.013	1.020
4.33	4.10	2.39	17	0.17	0.041995	19.71	1.433	0.333	1.740	1.912	1.035
4.90	4.97	202	47	0.47	0.043690	40.75	4,407	0.200	4.742	1.007	1.040
4.30	4.23	209	17	0.17	0.042060	10.73	1.437	0.330	1.797	1.337	1.040
9.37	4.39	200	17	0.17	0.043395	10.74	1.467	0.330	1.777	1.347	1.053
4.40	1.00	2.00	1.0	0.17	0.044000	10.70	1.409	0.330	4.700	1.930	1.000
4.52	4,49	270	18	0.17	0.044895	18.77	1,455	0.327	1.795	1.955	1.060
4.00	9.30	272	10	0.17	0.040011	10.73	1,470	0.327	1.000	1.376	1.000
4.07	4.04	279	10	0.17	0.040330	10.00	1,400	0.327	1.015	1.300	1.070
4.74	4.71	277	18	0.18	0.047102	18.81	1.501	0.324	1.875	2.001	1.075
4.81	4.78	279	18	0.18	0.04/81/	18.83	1.510	0.324	1.835	2.010	1.080
4.88	4.85	281	18	0.18	0.048533	18.84	1.520	0.324	1.845	2.020	1.085
4.96	4.93	283	18	0.18	0.049318	18.86	1.530	0.324	1.854	2.030	1.089
5.04	5.00	285	18	0.18	0.050033	18.87	1.539	0.322	1.861	2.039	1.091
5.11	5.08	287	18	0.18	0.050818	18.89	1.549	0.322	1.871	2.049	1.096
5.18	5.15	288	18	0.18	0.051454	18.90	1.553	0.319	1.872	2.053	1.095
5.27	5.23	290	18	0.18	0.052319	18.92	1.563	0.319	1.881	2.063	1.100
5.33	5.30	292	18	0.18	0.052955	18.93	1.572	0.319	1.891	2.072	1.105
5.41	5.37	294	19	0.18	0.053740	18.95	1.582	0.316	1.898	2.082	1.107
5.49	5.45	295	19	0.19	0.054525	18.96	1.586	0.313	1.899	2.086	1.106
5.57	5.53	297	19	0.18	0.055310	18.98	1.595	0.316	1.911	2.095	1.114
5.65	5.61	298	19	0.18	0.056095	18.99	1.599	0.316	1.915	2.099	1.116
5.72	5.69	299	19	0.19	0.056880	19.01	1.603	0.313	1.917	2.108	1.115
5.80	5.77	300	19	0.19	0.057665	19.03	1.607	0.313	1.921	2.107	1.117
5.89	5.85	300	19	0.19	0.058529	19.04	1.606	0.313	1.919	2.106	1.116
5.96	5.92	301	19	0.19	0.059235	19.06	1.610	0.310	1.921	2.110	1.116
6.04	6.00	302	19	0.19	0.060020	19.07	1.614	0.313	1.927	2.114	1.120
6.12	6.08	303	19	0.19	0.060805	19.09	1.618	0.310	1.929	2.118	1.120
6.20	6.16	303	19	0.19	0.061590	19.10	1.617	0.310	1.927	2.117	1.119
6.29	6.25	304	19	0.19	0.062454	19.12	1.621	0.310	1.931	2.121	1.121
6.36	6.32	304	19	0.19	0.063160	19.14	1.619	0.313	1.933	2.119	1.123
6.44	6.40	305	19	0.19	0.063955	19.15	1.623	0.313	1.937	2.123	1.125
6.51	6.47	305	19	0.18	0.064660	19.17	1.627	0.316	1.943	2.127	1.130
6.58	6.54	307	19	0.19	0.065376	19.18	1.631	0.313	1.945	2.131	1.129
6.66	6.62	309	19	0.19	0.066161	19.20	1.641	0.313	1.954	2.141	1.134
6.73	6.69	311	19	0.19	0.066876	19.21	1.650	0.313	1.963	2.150	1.138
6.80	6.76	314	19	0.19	0.067592	19.23	1.665	0.313	1.978	2.165	1.146
6.87	6.83	316	19	0.19	0.068307	19.24	1.674	0.313	1.987	2.174	1.150
6.95	6.90	317	19	0.19	0.069013	19.26	1.678	0.313	1.991	2.178	1.152
7.02	6.97	319	19	0.19	0.069728	19.27	1.687	0.313	2.001	2.187	1.157
7.09	7.04	321	19	0.19	0.070444	19.29	1.697	0.313	2.010	2.197	1.162
	Deform.	Celda	Presión	Incremento		Åres	Esfuerzo	s'3	11	=1	Estuerzo
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Deformación	Unitaria	Cargo	de poros	de poros	Deform.	Corregida	Desvindor	Efectivo	Efectivo	Total	Promedio
(mm)	8	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kg1/cm2)	(kgt/cm <sup>2</sup> )	(kgi/cm <sup>*</sup> )	(kg(/cm <sup>*</sup> )
7.16	7.12	323	19	0.19	0.071159	19.30	1,706	0.313	2.019	2,206	1.166
7.23	7.19	324	19	0.19	0.071875	19.32	1.710	0.313	2.023	2.210	1.168
7.31	7.27	326	19	0.19	0.072660	19.33	1.719	0.313	2.032	2.219	1.173
7.38	7.34	328	19	0.19	0.073375	19.35	1.728	0.313	2.041	2.228	1.177
7.46	7.42	329	19	0.19	0.074160	19.36	1.732	0.313	2.045	2.232	1.179
7.53	7.49	330	19	0.18	0.074866	19.38	1.736	0.316	2.052	2.236	1.184
7.61	7.57	332	19	0.19	0.075651	19.40	1,745	0.313	2.058	2.245	1.186
7.69	7.64	333	19	0.19	0.076366	19.41	1,749	0.313	2.062	2.249	1.188
7.76	7.72	335	19	0.19	0.077151	19.43	1.758	0.313	2.071	2.258	1.192
7.84	7.79	336	19	0.18	0.077936	19.44	1.762	0.316	2.078	2.262	1.197
7.92	7.87	338	19	0.18	0.078652	19.46	1.771	0.316	2.087	2.271	1.201
7.99	7.94	339	19	0.18	0.079437	19,48	1.774	0.316	2.090	2.274	1.203
8.07	8.02	340	19	0.18	0.080222	19.49	1.778	0.316	2.094	2.278	1.205
8.15	8.09	341	19	0.18	0.080937	19.51	1.782	0.316	2.098	2.282	1.207
8.22	8.17	342	19	0.18	0.081722	19.52	1.785	0.316	2.102	2.286	1.209
8.30	8.25	343	19	0.18	0.082507	19.54	1.789	0.316	2.105	2.289	1.211
8.38	8.33	344	19	0.18	0.083292	19.56	1.793	0.316	2.109	2.293	1.213
8.45	8.40	345	19	0.18	0.084008	19.57	1,797	0.316	2.113	2.297	1.214
8.53	8.47	346	19	0.18	0.084723	19.59	1.801	0.316	2.117	2.301	1.216
8.61	8.55	347	19	0.18	0.085508	19.60	1.804	0.316	2.120	2.304	1.218
8.68	8.63	347	19	0.18	0.086293	19.62	1.803	0.316	2.119	2.303	1.217
8.76	8.70	348	19	0.18	0.087009	19.64	1.807	0.316	2.123	2.307	1.219
8.83	8.77	350	19	0.18	0.087714	19.65	1.815	0.316	2.132	2,315	1.224
8.90	8.84	350	18	0.18	0.088430	19.67	1.814	0.319	2.133	2,314	1.226
8.97	8.91	351	18	0.18	0.089145	19.68	1.818	0.319	2.137	2,318	1.228
9.04	8.99	352	18	0.18	0.089861	19.70	1.822	0.319	2 140	2 322	1 230
9.12	9.06	353	18	0.18	0.090646	19.72	1.825	0.319	2.144	2.325	1.231
9.19	9.14	954	18	0.18	0.091361	19.73	1.829	0.319	2 148	2 329	1 233
9.27	9.21	355	18	0.18	0.092077	19.75	1.833	0.319	2.151	2,333	1,235
9.35	9.29	356	18	0.18	0.092862	19.76	1.836	0.319	2.155	2,336	1,237
9.42	9.96	357	18	0.18	0.093567	19.78	1.840	0.302	2 162	2 340	1.242
9.50	9.44	358	18	0.18	0.094352	19.80	1.843	0.319	2 162	2 343	1 241
0.55	0.50	956	10	0.19	0.004000	10.01	1.047	0.202	3 1 60	3 3 4 7	1.345
9.50	0.50	309	19	0.10	0.094990	10.93	1.057	0.322	2.100	2,347	1.240
9.71	0.00	365	19	0.19	0.096400	10.94	1.001	0.202	3,176	2.201	1 349
0.79	0.75	969	10	0.19	0.007214	10.95	1 000	0.204	3 1 9 3	3 35 9	1.004
0.95	0.90	302	19	0.10	0.097214	10.99	1.600	0.329	2.100	2,350	1.259
0.00	0.07	044	40	0.40	0.000745	10.00	1 000	0.004	3 100	2.202	4.967
9.95	2.07	309	10	0.10	0.096715	10.03	1.000	0.324	2.130	2.305	1.227
10.00	50.04	365	10	0.10	0.099331	10.01	1.003	0.224	2.139	2.303	1.200
10.06	40.04	300	40	0.10	0.100130	10.02	1.07.3	0.024	2.137	2.373	1.201
10.15	10.09	300	10	0.10	0.100921	13.34	1.0/1	0.329	2.135	2.371	1.200
10.23	10.15	30/	18	0.17	0.101635	13.36	1.675	0.527	2.202	2.375	1.260
10.31	10.24	367	18	0.18	0.102421	19.97	1.873	0.524	2.157	2.373	1.261
10.39	10.32	367	18	0.17	0.103206	19.99	1.871	0.327	2.199	2.371	1.263
10.47	10.40	367	18	0.17	0.103991	20.01	1.870	0.327	2.157	2.370	1.262
10.54	10.47	369	18	0.17	0.104707	20.02	1.878	0.327	2.206	2.378	1.266
10.62	10.55	369	18	0.17	0.105492	20.04	1.877	0.327	2.204	2.377	1.266
10.70	10.63	370	17	0.17	0.106277	20.06	1.880	0.330	7.210	2.380	1.270
10.77	10.71	370	17	0.17	0.107062	20.08	1.879	0.330	2.209	2.379	1.269
10.85	10.78	370	17	0.17	0.107847	20.10	1.877	0.330	2.207	2.377	1.268
10.93	10.86	370	17	0.17	0.108562	20.11	1.875	0.330	2.205	2.375	1.268
11.02	10.95	369	17	0.17	0.109487	20.13	1.868	0.330	2.198	2.368	1.264

	Deform.	Gilda	Presión	Incremento		Åres	Esfuerzo	13	- 11	a1	Estuerzo
Deformación	Unitaria	Carro	de poros	de poros	Deform.	Correctide	Deviador	Efectivo	Efectivo	Total	Promedio
(mm)	*	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )				
11.09	11.02	369	17	0.17	0.110202	20.15	1.857	0 330	2 197	2 367	1.263
11.17	11.10	369	17	0.17	0.110987	20.17	1.865	0.333	2,198	2.365	1.265
11.25	11.18	369	17	0.17	0.111772	20.18	1.864	0.333	2.196	2,364	1.265
11.33	11.26	368	17	0.17	0.112557	20.20	1.857	0.333	2,190	2.357	1.261
11.40	11.93	368	17	0.17	0.113273	20.22	1.855	0.333	2.188	2,355	1,260
11.48	11.41	367	17	0.17	0.114058	20.24	1.849	0.333	2.181	2.349	1.257
11.56	11.48	366	17	0.16	0.114843	20.25	1.842	0.336	2.178	2.342	1.257
11.63	11.56	365	17	0.16	0.115558	20.27	1.836	0.336	2.171	2.336	1.253
11.70	11.63	366	17	0.16	0.116274	20.29	1.839	0.336	2.175	2.339	1.255
11.77	11.70	367	17	0.16	0.116979	20.30	1.843	0.336	2.178	2,343	1.257
11.84	11.77	368	17	0.16	0.117695	20.32	1.846	0.336	2.182	2.346	1.259
11.92	11.84	369	17	0.16	0.118410	20.34	1.850	0.336	2.185	2.350	1.260
11.99	11.91	370	16	0.16	0.119126	20.35	1.853	0.338	2.191	2,353	1.265
12.06	11.98	371	16	0.16	0.119841	20.37	1.857	0.338	2.195	2.357	1.267
12.12	12.05	373	16	0.16	0.120477	20.38	1.865	0.338	2.204	2,365	1.271
12.20	12.13	374	16	0.16	0.121262	20.40	1.869	0.338	2.207	2.369	1.273
12.28	12.20	374	16	0.16	0.122047	20.42	1.867	0.341	2.208	2.367	1.275
12.35	12.28	375	16	0.16	0.122763	20.44	1.870	0.341	2.212	2.370	1.276
12.43	12.35	376	16	0.16	0.123548	20.46	1.874	0.341	2.215	2.374	1.278
12.51	12.43	377	16	0.16	0.124263	20.47	1.877	0.341	2.218	2.377	1.280
12.58	12.50	377	16	0.16	0.125048	20.49	1.876	0.344	2.219	2.376	1.282
12.66	12.58	378	16	0.16	0.125763	20.51	1.879	0.344	2.223	2.379	1.283
12.74	12.65	379	16	0.16	0.126549	20.53	1.882	0.344	2.226	2,382	1.285
12.81	12.73	380	16	0.15	0.127264	20.54	1.886	0.347	2.232	2.386	1.290
12.89	12.80	380	16	0.15	0.128049	20.56	1.884	0.347	2.231	2.384	1.289
12.97	12.88	380	16	0.15	0.128834	20.58	1.882	0.347	2.229	2,382	1.288
13.04	12.96	381	16	0.15	0.129619	20.60	1.886	0.347	2.232	2.386	1.289
13.12	13.03	381	16	0.15	0.130335	20.62	1.884	0.347	2.231	2,384	1.289
13.20	13.11	381	16	0.15	0.131120	20.63	1.882	0.347	2.229	2.382	1.288
13.27	13.19	381	15	0.15	0.131905	20.65	1.881	0.350	2.230	2.381	1.290
13.35	13.27	382	15	0.15	0.132690	20.67	1.884	0.350	2.233	2.384	1.291
13.42	13.34	382	15	0.15	0.133395	20.69	1.882	0.350	2.232	2.382	1.291
13.50	13.42	382	15	0.15	0.134180	20.71	1.881	0.350	2.230	2.381	1.290
13.58	13.50	382	15	0.15	0.134965	20.73	1.879	0.352	2.231	2.379	1.292
13.66	13.58	381	15	0.15	0.135750	20.74	1.872	0.352	2.225	2.372	1.288
13.73	13.65	382	15	0.15	0.136466	20.76	1.876	0.352	2.228	2.376	1.290
13.81	13.72	382	15	0.14	0.137181	20.78	1.874	0.355	2.229	2.374	1.292
13.88	13.79	381	15	0.14	0.137897	20.80	1.868	0.355	2.223	2.368	1.289
13.95	13.86	381	15	0.14	0.138612	20.81	1.865	0.355	2.221	2.366	1.288
14.03	13.94	381	15	0.14	0.139397	20.83	1.864	0.355	2.219	2.364	1.287
14.10	14.01	381	15	0.14	0.140113	20.85	1.863	0.355	2.218	2.363	1.286
14.17	14.08	381	14	0.14	0.140818	20.87	1.861	0.358	2.219	2.361	1.288
14.25	14.16	381	14	0.14	0.141603	20.89	1.860	0.358	2.217	2.360	1.288
14.32	14.23	380	14	0.14	0.142319	20.90	1.853	0.358	2.211	2.353	1.284
14.40	14.31	381	14	0.14	0.143104	20.92	1.856	0.361	2.217	2.356	1.289
14.47	14.38	381	14	0.14	0.143819	20.94	1.855	0.361	2.215	2.355	1.288
14.55	14.45	381	14	0.14	0.144535	20.96	1.853	0.361	2.214	2.353	1.287
14.62	14.58	381	14	0.14	0.145320	20.98	1.851	0.361	2.212	2.351	1.286
14.70	14.60	381	14	0.14	0.146035	20.99	1.850	0.361	2.211	2.350	1.286
14.78	14.68	382	14	0.14	0.146820	21.01	1.853	0.363	2.217	2.353	1.290
14.85	14.75	382	14	0.14	0.147536	21.03	1.852	0.363	2.215	2.352	1.289
14.93	14.83	381	14	0.14	0.148321	21.05	1.845	0.363	2.208	2.345	1.286

Operation         Destrom by the process         Destrom by the process         Corregate Social         Destrom by the process         Treation by the process         Treation by the process           15.00         14.490         341         14         0.14         0.149025         21.07         1.843         0.363         2.207         2.343         1.285           15.06         14.490         341         0.13         0.149821         21.09         1.842         0.366         2.206         2.342         1.285           15.15         15.20         380         14         0.13         0.155173         21.12         1.889         0.366         2.206         2.341         1.286           15.20         380         13         0.13         0.152748         2.116         1.831         0.496         2.192         1.281         1.281         1.282         0.369         2.192         2.313         1.284           15.57         15.57         379         13         0.13         0.15469         2.120         1.821         0.372         2.191         2.314         1.282           15.57         15.50         380         13         0.13         0.15469         2.124         1.821         0.372         2.191		Deform.	Celda	Presión	Incremento		Area	Enfuerco	13	- 11		Lafuerzo -
mm         s         N         page         (perferr)         Unstant         (pm)         (perferr)         (perferrr)         (perferrr)         (perferrr)         (perferrr)         (perferrrr)         (perferrrr)         (perferrrrrrrr)         (perferrrrrrrr)         (perferrrrrrrrr)         (perferrrrrrrrrrr)         (perferrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr	Deformación	Unitaria	Carga	de poros	de poros	Deform.	Corregida	Deviador	Efectivo	Efectivo	Total	Promedio
15.00         14.40         341         14         0.14         0.149025         21.07         1.843         0.383         2.207         2.343         1.285           15.06         341         14         0.13         0.15927         11.11         1.840         0.366         2.306         2.342         1.286           15.15         15.15         35.0         380         14         0.13         0.155173         21.14         1.883         0.386         2.206         2.331         1.284           15.27         15.27         380         13         0.13         0.152744         21.16         1.881         0.389         2.189         2.331         1.284           15.57         15.62         379         13         0.13         0.154459         21.22         1.821         0.372         2.191         2.313         1.284           15.57         15.56         379         13         0.13         0.15459         21.25         1.821         0.372         2.194         2.321         1.281           15.57         15.56         380         13         0.13         0.1569         2.129         1.821         0.372         2.194         2.321         1.281      <	(mm)	<b>%</b>	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm*)	$(kgt/cm^{2})$	(kgf/cm <sup>*</sup> )	(kg(/cm <sup>2</sup> )
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	15.00	14.90	381	14	0.14	0.149026	21.07	1.843	0.363	2.207	2.343	1.285
15.15         15.05         381         34         0.13         0.19527         21.11         1.869         0.366         2.265         2.340         1.286           15.20         380         44         0.13         0.150027         21.14         1.897         0.366         2.198         2.332         1.282           15.37         15.27         380         13         0.13         0.150207         21.14         1.881         0.366         2.198         2.332         1.284           15.54         380         13         0.13         0.154858         21.18         0.369         2.192         2.331         1.284           15.57         15.57         379         13         0.13         0.15459         21.21         1.821         0.372         2.191         2.311         1.282           15.57         379         13         0.13         0.15459         21.25         1.821         0.372         2.198         2.311         1.282           15.60         379         13         0.13         0.158029         2.129         1.814         0.375         2.187         2.304         1.276           15.60         378         13         0.13         0.158029 <td>15.08</td> <td>14.98</td> <td>381</td> <td>14</td> <td>0.13</td> <td>0.149821</td> <td>21.09</td> <td>1.842</td> <td>0.366</td> <td>2.208</td> <td>2.342</td> <td>1.287</td>	15.08	14.98	381	14	0.13	0.149821	21.09	1.842	0.366	2.208	2.342	1.287
15.21     15.20     381     14     0.13     0.151/73     21.12     1.839     0.366     2.206     2.339     1.286       15.30     15.27     380     13     0.13     0.152/027     21.14     1.831     0.366     2.108     2.332     1.282       15.47     380     13     0.13     0.153/458     21.18     1.821     0.369     2.192     2.329     1.284       15.54     379     13     0.13     0.153/458     21.18     1.821     0.369     2.192     2.321     1.282       15.57     15.57     379     13     0.13     0.155/44     21.24     1.821     0.372     2.194     2.312     1.281       15.57     356     138     0.13     0.158/245     21.27     1.821     0.372     2.194     2.321     1.282       15.57     350     13     0.13     0.158/245     21.28     1.823     0.372     2.194     2.321     1.282       15.59     350     13     0.13     0.158/24     21.27     1.821     0.372     2.198     2.331     1.282       15.69     378     13     0.13     0.158/24     21.31     1.814     0.375     2.181     2.331     1.282	15.15	15.05	381	14	0.13	0.150527	21.11	1.840	0.366	2.206	2.340	1.286
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	15.21	15.12	381	14	0.13	0.151173	21.12	1.839	0.366	2.205	2.339	1.286
15.37         15.27         380         13         0.13         0.152743         21.16         1.829         0.369         2.200         2.331         1.284           15.52         15.54         379         13         0.13         0.154243         21.20         1.623         0.369         2.192         2.323         1.280           15.59         15.50         379         13         0.13         0.158459         21.22         1.621         0.372         2.193         2.321         1.281           15.57         15.65         380         13         0.13         0.158459         21.25         1.623         0.372         2.194         2.321         1.281           15.50         15.80         379         13         0.13         0.15809         21.25         1.623         0.375         2.184         2.334         1.282           15.90         15.80         379         13         0.13         0.158059         21.33         1.806         0.375         2.184         2.306         1.271           15.61         15.67         378         13         0.13         0.16024         21.39         1.80         0.375         2.181         2.306         1.277	15.30	15.20	380	14	0.13	0.152027	21.14	1.832	0.366	2.198	2.332	1.282
15.44       15.35       380       13       0.13       0.15488       21.18       1.829       0.369       2.190       2.323       1.284         15.52       15.50       379       13       0.13       0.15495       2.122       1.821       0.372       2.191       2.321       1.282         15.57       15.57       379       13       0.13       0.155744       21.24       1.819       0.372       2.191       2.321       1.282         15.57       15.72       380       13       0.13       0.155744       21.27       1.821       0.372       2.193       2.321       1.282         15.90       15.80       379       13       0.13       0.158049       21.29       1.814       0.375       2.189       2.314       1.282         15.90       15.80       379       13       0.13       0.158049       21.33       1.806       0.375       2.187       2.306       1.273         15.61       378       13       0.13       0.158049       21.33       1.806       0.375       2.179       2.304       1.275         16.51       16.20       377       13       0.12       0.158049       1.42       1.790 <t< td=""><td>15.37</td><td>15.27</td><td>380</td><td>13</td><td>0.13</td><td>0.152743</td><td>21.16</td><td>1.831</td><td>0.369</td><td>2.200</td><td>2.331</td><td>1.284</td></t<>	15.37	15.27	380	13	0.13	0.152743	21.16	1.831	0.369	2.200	2.331	1.284
1552         1542         379         13         0.13         0.14243         21.20         1.821         0.369         2.192         2.321         1.282           1559         1550         379         13         0.13         0.15574         21.22         1.821         0.372         2.193         2.321         1.282           1557         1556         380         13         0.13         0.155744         21.27         1.821         0.372         2.194         2.321         1.282           1550         1580         379         13         0.13         0.158029         21.29         1.814         0.372         2.194         2.321         1.282           1550         15.80         379         13         0.13         0.158029         21.29         1.814         0.375         2.187         2.306         1.278           1560         1557         378         13         0.13         0.159059         21.33         1.806         0.375         2.187         2.306         1.278           1561         1660         378         13         0.12         0.162364         2.143         1.790         0.377         2.161         2.777         2.304         1.277	15.44	15.35	8	13	0.13	0.153458	21.18	1.829	0.369	2.198	2.329	1.284
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	15.52	15.42	379	13	0.13	0.154243	21.20	1.823	0.369	2.192	2.323	1.280
15.57         15.57         379         13         0.157/4         21.24         1.819         0.372         2.191         2.319         1.281           15.75         15.56         380         13         0.13         0.157244         21.27         1.821         0.372         2.194         2.321         1.282           15.80         15.80         379         13         0.13         0.1580/9         21.31         1.814         0.375         2.189         2.311         1.281           15.90         15.87         378         13         0.13         0.1580/9         21.31         1.814         0.375         2.181         2.304         1.276           16.15         16.05         378         13         0.13         0.160/24         21.39         1.804         0.375         2.177         2.303         1.276           16.31         16.20         377         13         0.12         0.162/94         21.39         1.803         0.377         2.167         2.303         1.275           16.31         16.20         377         13         0.12         0.162/94         21.39         1.070         0.377         2.161         2.2331         1.289           1	15.59	15.50	379	13	0.13	0.154959	21.22	1.821	0.372	2.193	2.321	1.282
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	15.67	15.57	379	13	0.13	0.155744	21.24	1.819	0.372	2.191	2.319	1.281
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	15.75	15.65	380	13	0.13	0.156459	21.25	1.823	0.372	2.194	2.323	1.283
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	15.82	15.72	380	13	0.13	0.157244	21.27	1.821	0.372	2.193	2.321	1.282
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15.90	15.80	379	13	0.13	0.158029	21.29	1.814	0.375	2.189	2.314	1.282
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15.99	15.89	379	13	0.13	0.158884	21.31	1.813	0.375	2.187	2.313	1.281
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	16.07	15.97	378	13	0.13	0.159669	21.33	1.806	0.375	2.181	2.306	1.278
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	16.15	16.05	378	13	0.13	0.160454	21.35	1.804	0.375	2.179	2.304	1.277
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	16.23	16.12	378	13	0.13	0.161239	21.37	1.803	0.375	2.177	2.303	1.276
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	16.31	16.20	377	13	0.12	0.162024	21.39	1,795	0.377	2.174	2.296	1.275
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	16.39	16.29	376	13	0.12	0.162878	21.42	1,790	0.377	Z.167	2.290	1.272
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15.45	16.35	375	13	0.12	0.163594	21.43	1.783	0.377	2.161	2.283	1.269
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	16.54	16.44	374	13	0.12	0.164379	21.45	1.00	0.377	2.154	2.2/7	1.266
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	15.52	16.52	372	12	0.12	0.165164	21.48	1.765	0.380	2.146	2.266	1.263
16.76         16.66         368         12         0.12         0.186385         21.51         1.744         0.380         2.124         2.244         1.252           16.84         16.74         367         12         0.12         0.167370         21.53         1.737         0.380         2.118         2.237         1.249           16.92         16.82         367         12         0.12         0.168165         21.57         1.739         0.380         2.116         2.236         1.249           16.99         16.88         368         12         0.12         0.169516         21.57         1.739         0.380         2.115         2.242         1.254           17.06         16.95         369         12         0.12         0.17032         21.61         1.746         0.383         2.127         2.246         1.256           17.20         17.09         370         12         0.12         0.17132         21.65         1.742         0.383         2.127         2.246         1.256           17.35         17.24         371         12         0.11         0.17343         1.744         0.386         2.138         2.252         1.261           17.35	16.69	16.59	370	13	0.12	0.165879	21.49	1.755	0.377	2.132	2.255	1.255
16.84 $16.74$ $367$ $12$ $0.12$ $0.167370$ $21.53$ $1.737$ $0.380$ $2.118$ $2.737$ $1.249$ $16.92$ $16.82$ $367$ $12$ $0.12$ $0.168801$ $21.57$ $1.739$ $0.380$ $2.116$ $2.236$ $1.248$ $16.99$ $16.88$ $368$ $12$ $0.12$ $0.169516$ $21.59$ $1.342$ $0.380$ $2.119$ $2.239$ $1.250$ $17.06$ $16.95$ $369$ $12$ $0.12$ $0.17032$ $21.61$ $1.746$ $0.383$ $2.129$ $2.246$ $1.256$ $17.20$ $17.09$ $370$ $12$ $0.12$ $0.17032$ $21.65$ $1.744$ $0.383$ $2.127$ $2.246$ $1.256$ $17.28$ $17.17$ $370$ $12$ $0.17$ $0.17238$ $21.65$ $1.744$ $0.386$ $2.130$ $2.244$ $1.256$ $17.43$ $17.32$ $373$ $12$ $0.11$ $0.173869$	16.76	16.66	368	12	0.12	0.166585	21.51	1.744	0.380	2.124	2.244	1.252
16.92         16.82         367         12         0.12         0.188165         21.55         1.738         0.380         2.116         2.236         1.248           16.99         16.88         368         12         0.12         0.168801         21.57         1.739         0.380         2.119         2.239         1.250           17.06         16.95         369         12         0.12         0.169516         21.59         1.742         0.383         2.125         2.242         1.256           17.00         17.09         370         12         0.12         0.170947         21.62         1.744         0.383         2.125         2.242         1.254           17.38         17.17         370         12         0.12         0.170347         21.62         1.744         0.383         2.125         2.242         1.254           17.35         17.24         371         12         0.11         0.173153         21.68         1.744         0.386         2.130         2.244         1.258           17.50         17.39         373         12         0.11         0.17654         21.70         1.750         0.386         2.138         2.250         1.261	15.84	16.74	367	12	0.12	0.16/3/0	21.53	1.737	0.380	2.118	2.237	1.249
16.39         16.38         388         12         0.12         0.18801         21.57         1.737         0.380         2.119         2.249         1.259           17.06         16.95         369         12         0.12         0.17032         21.61         1.742         0.383         2.125         2.242         1.254           17.13         17.00         370         12         0.12         0.17032         21.61         1.746         0.383         2.125         2.246         1.256           17.20         17.09         370         12         0.12         0.171732         21.65         1.742         0.383         2.125         2.244         1.255           17.38         17.24         371         12         0.12         0.17732         21.65         1.742         0.383         2.125         2.242         1.254           17.35         17.24         371         12         0.11         0.173153         21.66         1.746         0.383         2.129         2.246         1.256           17.43         17.39         373         12         0.11         0.17848         1.70         1.752         0.386         2.138         2.250         1.261 <t< td=""><td>16.92</td><td>16.82</td><td>367</td><td>12</td><td>0.12</td><td>0.168165</td><td>21.55</td><td>1.736</td><td>0.380</td><td>2.116</td><td>2.236</td><td>1.248</td></t<>	16.92	16.82	367	12	0.12	0.168165	21.55	1.736	0.380	2.116	2.236	1.248
17.06         16.95         369         12         0.12         0.1269516         21.59         1.742         0.833         2.125         2.742         1.254           17.13         17.02         370         12         0.12         0.170232         21.61         1.746         0.383         2.129         2.246         1.256           17.20         17.09         370         12         0.12         0.170947         21.62         1.744         0.383         2.127         2.244         1.255           17.28         17.17         370         12         0.12         0.171732         21.65         1.744         0.383         2.125         2.244         1.256           17.35         17.24         371         12         0.12         0.172438         1.746         0.386         2.130         2.244         1.256           17.43         17.32         373         12         0.11         0.173153         21.66         1.744         0.386         2.130         2.244         1.256           17.50         17.39         373         12         0.11         0.17654         21.72         1.750         0.386         2.138         2.250         1.261           17	16.99	15.86	368	12	0.12	0.168801	21.57	1.739	0.380	2.119	2.239	1.250
17.15         17.02         370         12         0.12         0.17032         21.81         1.746         0.383         2.129         2.246         1.256           17.20         17.09         370         12         0.12         0.170947         21.62         1.744         0.383         2.127         2.244         1.255           17.28         17.17         370         12         0.12         0.171732         21.65         1.742         0.383         2.125         2.242         1.256           17.35         17.24         371         12         0.11         0.173153         1.66         1.746         0.383         2.129         2.246         1.256           17.43         17.39         373         12         0.11         0.173168         1.744         0.386         2.130         2.244         1.258           17.50         17.39         373         12         0.11         0.17369         21.70         1.752         0.386         2.138         2.250         1.261           17.51         17.54         373         12         0.11         0.17654         21.74         1.749         0.386         2.133         2.247         1.259           17.73<	17.06	16.95	303	12	0.12	0.169516	21.59	1.742	0.583	2.125	2.242	1.254
17.20         17.09         370         12         0.12         0.17/947         21.52         1.744         0.383         2.127         2.244         1.255           17.28         17.17         370         12         0.12         0.171732         21.65         1.742         0.383         2.125         2.242         1.254           17.35         17.24         371         12         0.12         0.172438         21.66         1.746         0.383         2.129         2.246         1.256           17.43         17.32         371         12         0.11         0.173153         21.68         1.744         0.386         2.130         2.244         1.258           17.50         17.39         373         12         0.11         0.173869         21.70         1.752         0.386         2.138         2.252         1.262           17.58         17.47         373         12         0.11         0.175369         21.74         1.749         0.386         2.135         2.249         1.260           17.65         17.54         373         12         0.11         0.176154         21.76         1.747         0.386         2.133         2.247         1.259	17.13	17.02	370	12	0.12	0.170232	21.61	1.746	0.583	2.129	2.246	1.256
17.28         17.17         370         12         0.12         0.171732         21.85         1.742         0.383         2.125         2.242         1.254           17.35         17.24         371         12         0.12         0.172438         21.66         1.746         0.383         2.129         2.246         1.256           17.43         17.32         371         12         0.11         0.173153         21.68         1.744         0.386         2.130         2.244         1.258           17.50         17.39         373         12         0.11         0.173669         21.70         1.752         0.386         2.138         2.252         1.262           17.58         17.47         373         12         0.11         0.17654         21.72         1.750         0.386         2.138         2.250         1.261           17.65         17.54         373         12         0.11         0.17654         21.76         1.747         0.386         2.133         2.247         1.259           17.73         17.62         373         12         0.11         0.17657         21.78         1.747         0.389         2.139         2.247         1.264	17.20	17.09	370	12	0.12	0.1/094/	21.62	1.744	0.383	2.127	2.244	1.255
17.35         17.24         371         12         0.12         0.172438         21.86         1.746         0.383         2.1.9         2.246         1.256           17.43         17.32         371         12         0.11         0.173153         21.68         1.744         0.386         2.130         2.244         1.258           17.50         17.39         373         12         0.11         0.173869         21.70         1.752         0.386         2.138         2.252         1.262           17.58         17.47         373         12         0.11         0.17654         21.72         1.750         0.386         2.138         2.250         1.261           17.65         17.54         373         12         0.11         0.175369         21.74         1.749         0.386         2.138         2.249         1.260           17.73         17.62         373         12         0.11         0.176154         21.76         1.747         0.386         2.133         2.247         1.259           17.80         17.69         374         11         0.11         0.17655         21.80         1.747         0.389         2.137         2.249         1.262	17.28	17.17	370	12	0.12	0.171732	21.65	1.742	0.383	2.125	2.242	1.254
17.43       17.32       371       12       0.11       0.173153       21.68       1.744       0.386       2.130       2.244       1.258         17.50       17.39       373       12       0.11       0.173869       21.70       1.752       0.386       2.138       2.252       1.262         17.58       17.47       373       12       0.11       0.174654       21.72       1.750       0.386       2.136       2.250       1.261         17.65       17.54       373       12       0.11       0.175369       21.74       1.749       0.386       2.135       2.249       1.260         17.73       17.62       373       12       0.11       0.176154       21.76       1.747       0.386       2.133       2.247       1.259         17.80       17.69       374       11       0.11       0.17655       21.80       1749       0.389       2.137       2.249       1.263         17.95       17.84       374       11       0.11       0.17655       21.80       1747       0.389       2.137       2.249       1.263         17.95       17.84       374       11       0.11       0.178370       21.82 <td< td=""><td>17.35</td><td>17.24</td><td>3/1</td><td>12</td><td>0.12</td><td>0.172438</td><td>21.66</td><td>1,746</td><td>0.383</td><td>2.129</td><td>2.246</td><td>1.256</td></td<>	17.35	17.24	3/1	12	0.12	0.172438	21.66	1,746	0.383	2.129	2.246	1.256
17.50         17.59         373         12         0.11         0.173869         21.70         1.757         0.386         2.138         2.252         1.262           17.58         17.47         373         12         0.11         0.174654         21.72         1.750         0.386         2.136         2.250         1.261           17.65         17.54         373         12         0.11         0.175369         21.74         1.749         0.386         2.135         2.249         1.260           17.73         17.62         373         12         0.11         0.176154         21.76         1.747         0.386         2.133         2.247         1.259           17.80         17.69         374         11         0.11         0.17655         21.80         1.749         0.389         2.137         2.249         1.263           17.88         17.77         374         11         0.11         0.178570         21.82         1.747         0.389         2.136         2.247         1.262           18.03         17.92         375         11         0.11         0.179155         21.84         1750         0.389         2.142         2.253         1.264	17.43	17.32	371	12	0.11	0.173153	21.68	1.744	0.386	2.130	2.244	1.258
17.38         17.47         373         12         0.11         0.174634         21.72         1.750         0.386         2.136         2.250         1.261           17.65         17.54         373         12         0.11         0.175369         21.74         1.749         0.386         2.135         2.249         1.260           17.73         17.62         373         12         0.11         0.176154         21.76         1.747         0.386         2.133         2.247         1.259           17.80         17.69         374         11         0.11         0.17655         21.80         1.749         0.389         2.137         2.249         1.263           17.88         17.77         374         11         0.11         0.178570         21.82         1.747         0.389         2.137         2.249         1.263           17.95         17.84         374         11         0.11         0.178370         21.82         1.747         0.389         2.136         2.247         1.262           18.03         17.92         375         11         0.11         0.179155         21.84         1750         0.389         2.140         2.250         1.264	17.50	17.39	373	12	0.11	0.173869	21.70	1.752	0.586	2.158	2.252	1.262
17.85         17.84         373         12         0.11         0.173369         21.74         1.749         0.386         2.135         2.249         1.280           17.73         17.62         373         12         0.11         0.176154         21.76         1.747         0.386         2.133         2.247         1.259           17.80         17.69         374         11         0.11         0.17655         21.80         1.749         0.389         2.139         2.250         1.264           17.88         17.77         374         11         0.11         0.17655         21.80         1.749         0.389         2.137         2.249         1.263           17.95         17.84         374         11         0.11         0.178370         21.82         1.747         0.389         2.136         2.247         1.262           18.03         17.92         375         11         0.11         0.179155         21.84         1.750         0.389         2.142         2.253         1.265           18.10         17.99         376         11         0.11         0.180656         21.88         1.752         0.389         2.140         2.252         1.264	17.50	13.97	37.3	12	0.11	0.179039	21.72	1.750	0.000	2.130	2.250	1.201
17.73         13.32         375         12         0.11         0.176154         21.76         1.747         0.386         2.135         2.477         1.255           17.80         17.69         374         11         0.11         0.176870         21.78         1.750         0.389         2.139         2.250         1.264           17.88         17.77         374         11         0.11         0.17655         21.80         1.749         0.389         2.137         2.249         1.263           17.95         17.84         374         11         0.11         0.17855         21.80         1.747         0.389         2.137         2.249         1.263           18.03         17.92         375         11         0.11         0.179155         21.84         1.750         0.389         2.130         2.250         1.264           18.10         17.99         376         11         0.11         0.179861         21.86         1.753         0.389         2.142         2.253         1.265           18.18         18.07         376         11         0.11         0.180656         21.88         1.752         0.389         2.140         2.252         1.264	17.65	17.59	373	12	0.11	0.175369	21.74	1.742	0.300	2.135	2.293	4.000
17.80         17.89         374         11         0.11         0.176870         21.78         1.780         0.389         2.139         2.250         1.284           17.88         17.77         374         11         0.11         0.17655         21.80         1749         0.389         2.137         2.249         1.263           17.95         17.84         374         11         0.11         0.17655         21.80         1.747         0.389         2.136         2.247         1.262           18.03         17.92         375         11         0.11         0.179155         21.84         1750         0.389         2.130         2.250         1.264           18.00         17.99         376         11         0.11         0.179861         21.86         1.753         0.389         2.142         2.253         1.265           18.18         18.07         376         11         0.11         0.180656         21.88         1.752         0.389         2.140         2.252         1.264           18.26         18.14         376         11         0.11         0.180414         21.90         1.750         0.391         2.141         2.250         1.266	17.73	17.02	373	12	0.11	0.170139	21.70	1.797	0.300	2.133	2.247	1.259
17.88         17.77         374         11         0.11         0.17/635         21.80         1.749         0.389         2.137         2.499         1.265           17.95         17.84         374         11         0.11         0.17635         21.80         1.749         0.389         2.137         2.499         1.263           18.03         17.92         375         11         0.11         0.179155         21.84         1750         0.389         2.139         2.250         1.264           18.00         17.99         376         11         0.11         0.179861         21.86         1.753         0.389         2.142         2.253         1.265           18.18         18.07         376         11         0.11         0.180656         21.88         1.752         0.389         2.140         2.252         1.264           18.26         18.14         376         11         0.11         0.180456         21.88         1.752         0.389         2.140         2.252         1.264           18.26         18.14         376         11         0.11         0.18226         21.92         1.748         0.391         2.141         2.250         1.266	17.80	17.65	374	- 11	0.11	0.175870	21.78	1.750	0.389	2.139	2.250	1.264
17.35         17.37         17.37         17.37         17.37         17.37         17.37         17.37         17.37         17.47         0.389         2.136         2.147         12.62           18.03         17.92         375         11         0.11         0.179155         21.84         1750         0.389         2.139         2.250         1.264           18.10         17.99         376         11         0.11         0.179861         21.86         1.753         0.389         2.142         2.253         1.265           18.18         18.07         376         11         0.11         0.180656         21.88         1.752         0.389         2.140         2.252         1.264           18.26         18.14         376         11         0.11         0.180656         21.88         1.752         0.389         2.140         2.252         1.264           18.26         18.14         376         11         0.11         0.180414         21.90         1.750         0.391         2.141         2.250         1.266           18.34         18.22         376         11         0.11         0.182266         21.92         1.748         0.391         2.140	17.00	17.04	374	11	0.11	0.179330	21.60	1.742	0.369	2.137	2.293	1.203
18.03         17.32         375         11         0.11         0.179135         21.64         1750         0.389         2.139         2.130         1.164           18.10         17.99         376         11         0.11         0.179135         21.84         1.750         0.389         2.142         2.253         1.265           18.18         18.07         376         11         0.11         0.180656         21.88         1.752         0.389         2.140         2.252         1.264           18.26         18.14         376         11         0.11         0.180456         21.88         1.752         0.389         2.140         2.252         1.264           18.26         18.14         376         11         0.11         0.180441         21.90         1.750         0.391         2.141         2.250         1.266           18.34         18.22         376         11         0.11         0.182226         21.92         1.748         0.391         2.140         2.248         1.265           18.42         18.30         376         11         0.11         0.183011         21.94         1.747         0.391         2.138         2.247         1.265	19.00	17.09	374		0.11	0.170370	21.02	1.750	0.303	2.130	2.297	1.202
18.10         17.55         576         11         0.11         0.175661         21.86         1755         0.389         2.142         2.155         1265           18.18         18.07         376         11         0.11         0.180656         21.88         1.752         0.389         2.142         2.252         1.264           18.26         18.14         376         11         0.11         0.181441         21.90         1.750         0.391         2.141         2.250         1.266           18.34         18.22         376         11         0.11         0.182226         21.92         1.748         0.391         2.140         2.248         1.265           18.42         18.30         376         11         0.11         0.183011         21.94         1.747         0.391         2.148         2.247         1.265           18.42         18.30         376         11         0.11         0.183796         21.97         1.745         0.391         2.136         2.245         1.265           18.50         18.38         376         11         0.11         0.184501         21.98         1.743         0.391         2.136         2.245         1.264	18.10	17.02	373	11	0.11	0.179255	21.09	1 752	0.303	2.130	2.250	1.365
18.18         16.07         376         11         0.11         0.180636         21.36         1.757         0.389         2.140         2.137         1.264           18.26         18.14         376         11         0.11         0.181441         21.90         1.750         0.391         2.141         2.250         1.266           18.34         18.22         376         11         0.11         0.182226         21.92         1.748         0.391         2.140         2.248         1.265           18.42         18.30         376         11         0.11         0.183011         21.94         1.747         0.391         2.148         2.247         1.265           18.50         18.38         376         11         0.11         0.183796         21.97         1.745         0.391         2.136         2.245         1.264           18.57         18.45         376         11         0.11         0.184501         21.98         1.743         0.391         2.136         2.243         1.263	10.10	10.07	370		0.11	0.1/9001	21.00	1.753	0.303	2.146	2.233	1.200
1815         1815         11         0.11         0.11441         21.50         1.755         0.551         2.141         2.555         1.255           1834         18.22         376         11         0.11         0.18226         21.92         1.748         0.391         2.140         2.248         1.265           18.42         18.30         376         11         0.11         0.183011         21.94         1.747         0.391         2.138         2.247         1.265           18.50         18.38         376         11         0.11         0.183796         21.97         1.745         0.391         2.136         2.245         1.264           18.57         18.45         376         11         0.11         0.184501         21.98         1.743         0.391         2.135         2.243         1.263	10.10	10.14	379		0.11	0.121441	21.00	1 750	0.303	2.140	2.232	1.209
18.42         18.30         376         11         0.11         0.183011         21.94         1.747         0.391         2.138         2.247         1.265           18.50         18.38         376         11         0.11         0.183796         21.97         1.745         0.391         2.138         2.247         1.265           18.50         18.38         376         11         0.11         0.183796         21.97         1.745         0.391         2.136         2.245         1.264           18.57         18.45         376         11         0.11         0.184501         21.98         1.743         0.391         2.135         2.243         1.263	18 34	18.22	370	11	0.11	0.161441	21.90	1.750	0.391	2.191	2.230	1.200
18.52         16.50         375         11         0.11         0.183011         21.54         1.747         0.391         2.136         2.247         1.265           18.50         18.38         376         11         0.11         0.183796         21.97         1.745         0.391         2.136         2.245         1.264           18.57         18.45         376         11         0.11         0.184501         21.98         1.743         0.391         2.135         2.243         1.263	10.45	10.00	9796	44	0.44	0.120044	24.04	4.242	0.004	3 1 3 0	0.047	4,000
18.57         18.45         376         11         0.11         0.184501         21.98         1.743         0.391         2.135         2.243         1.263	19.50	19.30	3/0	11	0.11	0.163011	21.94	1.745	0.391	2.130	2.297	1.203
1031 CP1.1 C01.1 101.1 0011 1011 1011 101 101 101 10	18.57	18.45	379	11	0.11	0.184501	21.92	1 743	0.391	3 1 25	2.290	1.269
10 24 10 23 232 14 0.11 0.12 2500 1.745 0.004 5.155 5.545 4.545	10 54	10 53	370	44	0.11	0.100047	22.70	4,742	0.391	3 4 5 5	0.040	1.203
18.04 16.32 370 11 0.11 0.165217 22.00 1.742 0.391 2.133 2.242 1.262 18.70 18.60 376 11 0.11 0.186000 39.00 1.740 0.064 9.139 9.340 1.924	18.04	18.52	375	11	0.11	0.165217	22.00	1,740	0.391	2.133	2.292	1.202
10.70 10.67 275 11 0.11 0.100717 23.04 1.704 0.001 2.102 2.200 1.201	19.70	19 47	379	44	0.11	0.195717	22.04	1 794	0.391	3436	3 224	1 900
18.87 18.75 375 11 0.11 0.187502 22.07 1.732 0.304 2.136 2.239 1.256	18.87	18.75	875	11	0.11	0.187502	22.67	1 782	0.391	2 136	2 292	1 260

	Deform	Calde	Presiden	Incremento		Årea	Lifuerzo	:3	11		Enfuerco
Deformación	Unitaria	Cargo	de poros	de poros	Deform.	Correctide	Develop	Efectivo	Efectivo	Total	Promedio
(mm)	*	N	(kPa)	(kurf/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(krt/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kat/cm <sup>2</sup> )
18.94	18.82	374	11	0.11	0.188218	22.08	1 726	0.994	2 1 2 0	2 226	1.257
19.01	18.89	374	11	0.11	0.188933	22.10	1.725	0.394	2.119	2.225	1.256
19.09	18.97	374	11	0.11	0.189718	22.13	1,723	0.394	2.117	2,223	1.256
19.16	19.04	373	11	0.11	0.190434	22.15	1.717	0.394	2.111	2,217	1.253
19.24	19.12	373	11	0.11	0.191219	22.17	1.715	0.394	2.109	2,215	1.252
19.31	19.19	372	11	0.11	0.191924	22.19	1.709	0.394	2.108	2.209	1.249
19.39	19.27	372	11	0.10	0.192710	22.21	1.708	0.397	2.104	2.208	1.251
19.41	19.29	373	11	0.11	0.192859	22.21	1.712	0.394	2.106	2.212	1.250
19.54	19.41	373	11	0.10	0.194140	22.25	1.709	0.397	2.106	2.209	1.251
19.62	19.49	372	11	0.10	0.194925	22.27	1.703	0.397	2.100	2.203	1.248
19.69	19.56	372	11	0.10	0.195641	22.29	1.701	0.397	2.098	2.201	1.248
19.76	19.64	373	11	0.10	0.196356	22.31	1.704	0.397	2.101	2.204	1.249
19.83	19.71	374	11	0.10	0.197072	22.33	1.707	0.397	2.104	2.207	1.251
19.91	19.79	374	11	0.10	0.197857	22.35	1.706	0.397	2.108	2.206	1.250
19.98	19.86	374	11	0.10	0.198562	22.37	1.704	0.397	2.101	2.204	1.249
	-	•	T	Etapa	de falla seg	undo incre	mento	-	T	-	1
Deformación	Deform.	Celda	Presión	Incremento	Deform	Area	Esfuerzo	s'3	a'1	s1.	Estuerzo
(mm)	Unitaria	Cargo	de poros	deporos	Unitaria	Corregide	Desviedor	Efectivo	Efectivo	Total	Promedio
	*	N	(kPa)	(kgi/cm²)		(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm²)
0.00	0.00	0	8	0.00	0.000000	17.98	0.000	1.000	1.000	1.000	1.000
0.08	0.08	11	- 30	0.00	0.000791	18.00	0.062	0.997	1.060	1.062	1.028
0.15	0.15	29	- 30	0.01	0.001493	18.01	0.164	0.992	1.156	1.164	1.074
0.23	0.23	42	31	0.02	0.002274	18.03	0.238	0.983	1.221	1.238	1.102
0.31	0.31	53	32	0.03	0.003055	18.04	0.299	0.975	1.274	1.299	1.125
0.39	0.38	64	33	0.03	0.003837	18.05	0.361	0.967	1.328	1.361	1.147
0.46	0.45	74	33	0.04	0.004548	18.07	0.418	0.958	1.376	1.418	1.167
0.53	0.52	85	34	0.05	0.005191	18.08	0.479	0.953	1.432	1.479	1.192
0.60	0.60	96	35	0.06	0.005972	18.09	0.541	0.944	1.485	1.541	1.215
0.68	0.67	107	36	0.06	0.006684	18.11	0.602	0.936	1.538	1.602	1.237
0.74	0.73	117	37	0.07	0.007317	18.12	0.658	0.928	1.586	1.658	1.257
0.81	0.80	126	37	0.08	0.008029	18.13	0.708	0.919	1.628	1.708	1.273
0.88	0.87	136	38	0.09	0.008741	18.14	0.764	0.914	1.678	1.764	1.296
0.96	0.95	145	39	0.09	0.009453	18.16	0.814	0.905	1.719	1.814	1.312
1.02	1.01	154	39	0.10	0.010085	18.17	0.864	0.902	1.767	1.854	1.334
1.10	1.05	102	40	0.10	0.010667	10.10	0.506	0.097	1.000	1.900	1.351
1.17	1.10	170		0.11	0.011579	10.20	0.352	0.004	1.040	1.952	1.570
1.24	1.20	195	41	0.11	0.012291	18.21	1.095	0.000	1.000	1.337	1.307
1 30	1.07	100		0.12	0.012715	10.30	1.000	0.000	1.051	3,073	1.414
1.47	1.45	192	42	0.12	0.013/15	18.25	1 112	0.077	1.951	2.075	1.428
1.54	1.52	206	43	0.13	0.015208	18.26	1 150	0.855	2.016	2 150	1.441
1.62	1.60	212	43	0.14	0.015989	18.78	1 188	0.853	2.051	2 188	1.457
1.70	1.68	220	43	0.14	0.016770	18,29	1.226	0.861	2.087	2,226	1.474
1 77	1.75	225	43	0.14	0.017472	18 30	1 258	0.858	2 1 1 1	2 258	1.484
1.84	1.82	231	44	0.15	0.018184	18 32	1,286	0.852	2,138	2,786	1,495
1.92	1.90	236	44	0.15	0.018965	18.33	1,312	0,850	2.162	2,312	1,506
1.98	1.96	242	45	0.15	0.019608	18 34	1,345	0.847	2,191	2,345	1.519
2.06	2.04	246	45	0.15	0.020389	18.36	1.366	0.847	2.213	2.366	1.530
2.14	2.12	250	45	0.16	0.021170	18.37	1,387	0.844	2,231	2,387	1.537
2.22	2.20	255	45	0.16	0.021951	18.39	1,414	0.841	2,255	2,414	1.548
2.30	2.27	258	45	0.16	0.022732	18.40	1.429	0.838	2.267	2.429	1.553

	Deform.	Celda	Presión	Incremento		Åres	Esfuerzo	: 3	a'1	a4.	Lafuerzo.
Deformación	Unitaria	Caren	de poros	de poros	Deform.	Correctide	Develop	Efectivo	Efectivo	Total	Promedio
(mm)	*	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
2.38	2.35	262	46	0.17	0.023514	18.42	1.450	0.833	2,283	2,450	1.558
2.45	2.42	266	46	0.17	0.024225	18.43	1.471	0.833	2.304	2.471	1.568
2.53	2.50	269	46	0.17	0.025007	18,45	1.487	0.830	2.317	2,487	1.573
2.61	2.58	273	47	0.17	0.025788	18,46	1.507	0.827	2.335	2.507	1.581
2.68	2.65	275	47	0.17	0.026500	18.47	1.517	0.827	2.345	2.517	1.586
2.76	2.73	278	47	0.18	0.027281	18,49	1.533	0.824	2.357	2.533	1.591
2.84	2.81	281	47	0.18	0.028062	18.50	1.548	0.822	2.370	2.548	1.596
2.91	2.88	284	47	0.18	0.028774	18.52	1.563	0.819	2.382	2.563	1.601
2.98	2.95	287	47	0.18	0.029476	18.53	1.579	0.819	2.398	2.579	1.608
3.06	3.03	289	47	0.18	0.030257	18.55	1.588	0.819	2.407	2.588	1.613
3.13	3.10	291	4	0.18	0.030969	18.56	1.598	0.816	2.414	2.598	1.615
3.21	3.18	294	48	0.18	0.031750	18.57	1.613	0.816	2.430	2.613	1.623
3.28	3.25	295	48	0.19	0.032462	18.59	1.623	0.813	2.437	2.623	1.625
3.36	3.32	298	48	0.19	0.033243	18.60	1.633	0.813	2.446	2.633	1.630
3.44	3.40	300	4	0.19	0.034024	18.62	1.643	0.810	2.453	2.643	1.632
3.51	3.47	303	4	0.19	0.034736	18.63	1.658	0.808	2.465	2.658	1.637
3.59	3.54	305	48	0.19	0.035448	18.65	1.667	0.808	2.475	2.667	1.641
3.66	3.62	307	49	0.20	0.036229	18.66	1.677	0.805	2.482	2.677	1.643
3.74	3.69	309	49	0.20	0.036941	18.67	1.687	0.805	2.492	2.687	1.648
3.82	3.77	310	49	0.20	0.037722	18.69	1.691	0.805	2.496	2.691	1.650
3.89	3.84	313	49	0.20	0.038425	18.70	1.706	0.802	2.508	2.706	1.655
3.96	3.91	314	49	0.20	0.039136	18.72	1.710	0.802	2.512	2.710	1.657
4.04	3.99	316	49	0.20	0.039918	18.73	1.720	0.802	2.522	2.720	1.662
4.11	4.06	318	49	0.20	0.040630	18.75	1.729	0.799	2.529	2.729	1.664
4.19	4.14	320	49	0.20	0.041411	18.76	1.739	0.799	2.538	2.739	1.669
4.26	4.21	322	50	0.20	0.042123	18.78	1.748	0.797	2.545	2.748	1.671
4.33	4.28	324	50	0.20	0.042835	18.79	1.758	0.797	2.554	2.758	1.675
4.41	4.36	326	50	0.20	0.043616	18.80	1.767	0.797	2.564	2.767	1.680
4.49	4.44	328	50	0.20	0.044397	18.82	1.777	0.797	2.573	2.777	1.685
4.56	4.51	329	50	0.21	0.045109	18.83	1.781	0.794	2.574	2.781	1.684
4.64	4.59	332	50	0.21	0.045890	18.85	1.795	0.794	2.589	2.795	1.691
4.72	4.67	334	50	0.21	0.046671	18.86	1.805	0.794	2.599	2.805	1.696
4.79	4.74	335	50	0.21	0.047373	18.88	1.809	0.791	2.600	2.809	1.695
4.86	4.81	335	50	0.21	0.048085	18.89	1.807	0.791	2.598	2.807	1.695
4.94	4.89	336	50	0.21	0.048866	18.91	1.811	0.791	2.602	2.811	1.697
5.03	4.97	337	50	0.21	0.049726	18.93	1.815	0.791	2.606	2.815	1.699
5.11	5.05	338	50	0.21	0.050508	18.94	1.819	0.788	2.607	2.819	1.698
5.19	5.13	338	50	0.21	0.051289	18.96	1.818	0.788	2.606	2.818	1.697
5.27	5.21	339	50	0.21	0.052070	18.97	1.821	0.788	2.610	2.821	1.699
5.35	5.29	339	50	0.21	0.052851	18.99	1.820	0.788	2.608	2.820	1.698
5.42	5.36	340	51	0.21	0.053553	19.00	1.824	0.785	2.609	2.824	1.697
5.49	5.43	340	51	0.21	0.054265	19.02	1.823	0.785	2.608	2.823	1.697
5.57	5.50	341	51	0.21	0.055046	19.03	1.826	0.785	2.612	2.826	1.699
5.64	5.58	343	51	0.21	0.055758	19.05	1.836	0.785	2.621	2.836	1.703
5.72	5.65	345	51	0.22	0.056539	19.06	1.845	0.783	2.628	2.845	1.705
5.78	5.72	346	51	0.22	0.057182	19.08	1.849	0.783	2.632	2.849	1.707
5.86	5.79	348	51	0.22	0.057894	19.09	1.858	0.783	2.641	2.858	1.712
5.93	5.87	350	51	0.22	0.058675	19.11	1.867	0.783	2.650	2.867	1.716
6.01	5.94	352	51	0.22	0.059377	19.12	1.877	0.783	2.659	2.877	1.721
6.08	6.01	354	51	0.22	0.060089	19.13	1.885	0.780	2.666	2.886	1.723
6.14	6.07	356	51	0.22	0.060732	19.15	1.895	0.783	2.678	2.895	1.730
6.21	6.14	357	52	0.22	0.061444	19.16	1.899	0.777	2.676	2.899	1.727

	Deform.	Gelde	Presión	Incremento		Åres	Esfuerzo	13	11	= =1	Estuerzo
Deformación	Unitaria	Carpen	de poros	de poros	Deform.	Correctide	Deviador	Efectivo	Efectivo	Total	Promedio
(mm)	8	N	(kPa)	(kgf/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgt/cm <sup>2</sup> )
6.29	6.22	359	52	0.23	0.062225	19.18	1.908	0.774	2.682	2.908	1.728
6.37	6.29	361	52	0.22	0.062937	19.19	1.917	0.777	2.694	2.917	1,736
6.44	6.37	362	52	0.23	0.063718	19.21	1.921	0.774	2.695	2,921	1,735
6.52	6.44	364	52	0.23	0.064420	19.22	1.930	0.774	2.705	2.930	1,739
6.59	6.51	365	52	0.23	0.065132	19.24	1.934	0.774	2,708	2,934	1,741
6.67	6.59	367	52	0.23	0.065913	19.25	1.943	0.774	2.717	2.943	1,746
6.75	6.67	369	52	0.23	0.066694	19.27	1.952	0.774	2.726	2.952	1.750
6.82	6.74	371	52	0.23	0.067406	19.28	1.961	0.774	2.735	2.961	1,755
6.90	6.82	372	52	0.23	0.068187	19.30	1.965	0.774	2.739	2.965	1.757
6.97	6.89	373	52	0.23	0.068899	19.32	1.969	0.774	2,743	2,969	1,759
7.05	6.97	375	52	0.23	0.069680	19.33	1.977	0.774	2.752	2.977	1.763
7.12	7.04	376	52	0.23	0.070392	19.35	1.981	0.774	2.755	2.981	1.765
7.20	7.12	377	52	0.23	0.071173	19.36	1.985	0.774	2.759	2.985	1.767
7.28	7.20	379	52	0.23	0.071955	19.38	1.994	0.771	2.765	2.994	1,768
7.36	7.27	379	52	0.23	0.072736	19,40	1,992	0.771	2.763	2,992	1,767
7.44	7.35	377	52	0.23	0.073517	19,41	1.980	0.771	2.751	2,980	1,761
7.51	7.43	379	52	0.23	0.074298	19.43	1.989	0.771	2.760	2.989	1.766
7.59	7.50	380	52	0.23	0.075010	19.44	1.992	0.771	2,764	2,992	1.768
7.67	7.59	381	52	0.23	0.075860	19.46	1.996	0.771	2.767	2.996	1.769
7.74	7.65	381	52	0.23	0.076493	19.47	1.994	0.771	2.766	2.994	1.769
7.82	7.73	382	52	0.23	0.077274	19,49	1,998	0.771	2,769	2,998	1,770
7.89	7.81	384	52	0.23	0.078055	19.51	2.007	0.771	2.778	3.007	1.775
7.97	7.88	385	52	0.23	0.078837	19.52	2.010	0.771	2,782	3.010	1,777
8.04	7.95	385	52	0.23	0.079479	19.54	2.009	0.771	2.780	3,009	1.776
8.11	8.02	386	52	0.23	0.080191	19.55	2.012	0.771	2.784	3.012	1.778
8.19	8.10	386	52	0.23	0.080972	19.57	2.011	0.769	2.779	3.011	1,774
8.26	8.17	386	52	0.23	0.081684	19.58	2.009	0.771	2.781	3.009	1.776
8.33	8.24	387	52	0.23	0.082396	19,60	2.013	0.771	2,784	3.013	1,778
8.41	8.32	387	52	0.23	0.083177	19.62	2.011	0.771	2.783	3.011	1.777
8.48	8.39	387	52	0.23	0.083879	19.63	2.010	0.771	2.781	3.010	1.776
8.56	8.47	389	52	0.23	0.084661	19.65	2.018	0.771	2.790	3.018	1.781
8.63	8.54	390	52	0.23	0.085372	19.66	2.022	0.771	2.793	3.022	1.782
8.71	8.61	390	52	0.23	0.086084	19,68	2.020	0.771	2,792	3.020	1,782
8.79	8.69	391	52	0.23	0.086866	19.70	2.024	0.771	2.795	3.024	1.783
8.86	8.76	392	52	0.23	0.087577	19.71	2.027	0.771	2.799	3.027	1.785
8.94	8.84	392	52	0.23	0.088359	19.73	2.026	0.771	2.797	3.026	1.784
9.01	8.91	393	52	0.23	0.089071	19.74	2.029	0.771	2.801	3.029	1.786
9.09	8.99	394	52	0.23	0.089852	19,76	2.033	0.771	2.804	3.033	1,788
9.16	9.06	394	52	0.23	0.090564	19.78	2.031	0.771	2.802	3.031	1.787
9.23	9.13	395	52	0.23	0.091266	19.79	2.035	0.771	2.806	3.035	1.789
9.31	9.21	397	52	0.23	0.092057	19.81	2.043	0.771	2.815	3.043	1.793
9.38	9.28	396	52	0.23	0.092759	19.82	2.036	0.771	2.808	3.036	1,790
9.46	9.35	398	52	0.23	0.093540	19.84	2.045	0.771	2.816	3.045	1,794
9.54	9.43	399	52	0.23	0.094321	19,86	2.048	0.771	2.820	3.048	1,796
9.61	9.50	400	52	0.23	0.095033	19.87	2.052	0.771	2.823	3.052	1.797
9.68	9.57	402	52	0.23	0.095745	19.89	2.060	0.771	2.832	3.060	1.802
9.76	9.65	402	52	0.23	0.096526	19.91	2.059	0.774	2.833	3.059	1.804
9.83	9.72	403	52	0.23	0.097238	19.92	2.062	0.774	2.836	3.062	1.805
9.91	9.80	403	52	0.23	0.098019	19.94	2.060	0.774	2.835	3.060	1.804
9.99	9.87	404	52	0.23	0.098731	19.95	2.064	0.774	2.838	3.064	1.806
10.07	9.96	404	52	0.23	0.099581	19.97	2.062	0.774	2.836	3.062	1.805
10.15	10.04	403	52	0.23	0.100363	19.99	2.055	0.774	2.829	3.055	1.802

## 11:55 a. m.

F		Deform.	Gelda	Predón	Incremento		Åres	Lafuerzo	13	a'1	a1.	Estuerzo
	Deformación	Unitaria	Carro	de poros	de poros	Deform.	Correctide	Dervindor	Efectivo	Efectivo	Total	Promedio
	(mm)	5	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgt/cm <sup>2</sup> )
r	10.24	10.12	402	52	0.23	0.101213	20.01	2.048	0.774	2 822	3.048	1 798
F	10.91	10.19	402	52	0.23	0.101925	20.03	2.046	0.774	2.821	3.046	1 797
-	10.39	10.27	402	52	0.23	0.102706	20.04	2.045	0.774	2.819	3.045	1 797
┝	10.47	10.95	401	52	0.23	0.103487	20.05	2.088	0.774	2.812	3,038	1 793
┝	10.55	10.42	404	50	0.32	0.104360	30.02	2,000	0.774	3,910	3,036	1 202
ŀ	10.55	10.90	401	52	0.23	0.105240	20,00	2,000	0.774	3,909	3,030	1.792
┝	10.20	10.58	400	52	0.23	0.105761	20.11	2 607	0.774	2.802	3.027	1 788
┝	10.70	10.00	404	50	0.32	0.106470	20.12	2,025	0.774	3.005	0.001	1 200
ŀ	10.94	10.05	400	52	0.23	0.100473	20.15	2,001	0.774	2.000	3,031	1.790
┝	10.04	40.76	400	60	0.33	0.107107	30.44	3,000	0.774	3.010	0.000	1 704
┝	10.91	10.79	400	52	0.22	0.109500	20.10	2.000	0.777	2.015	3,030	1 702
-	11.06	10.02	404	24	0.22	0.100233	20.10	2.041	0.774	2.010	3,041	1.739
┝	11.06	10.35	400	24	0.23	0.100311	20.15	2.040	0.779	2.019	3,045	1.797
┝	11.13	11.00	405	52	0.22	0.110023	20.21	2.043	0.777	2.820	3.043	1.799
┝	11.20	11.07	406	52	0.22	0.110/35	20.22	2.046	0.777	2.823	3.046	1.800
ŀ	11.27	11.14	407	52	0.22	0.111437	20.24	2.050	0.777	2.827	3.050	1.802
L	11.34	11.21	408	52	0.22	0.112149	20.26	2.053	0.777	2.850	3.053	1.804
L	11.41	11.29	409	51	0.22	0.112861	20.27	2.057	0.780	2.856	3.057	1.808
	11.49	11.36	409	51	0.22	0.113642	20.29	2.055	0.780	2.835	3.055	1.807
	11.57	11.44	410	51	0.22	0.114354	20.31	2.058	0.780	2.838	3.058	1.809
	11.64	11.51	411	51	0.22	0.115066	20.32	2.062	0.780	2.841	3.062	1.811
L	11.72	11.58	412	51	0.22	0.115847	20.34	2.065	0.780	2.845	3.065	1.812
L	11.79	11.66	413	51	0.22	0.116559	20.36	2.068	0.780	2.848	3.068	1.814
L	11.87	11.74	414	51	0.22	0.117409	20.38	2.071	0.780	2.851	3.071	1.815
	11.95	11.82	415	51	0.22	0.118191	20.40	2.074	0.783	2.857	3.074	1.820
	12.03	11.89	416	51	0.22	0.118902	20.41	2.078	0.783	2.860	3.078	1.821
	12.10	11.97	416	51	0.22	0.119684	20.43	2.076	0.783	2.858	3.076	1.820
	12.18	12.05	417	51	0.22	0.120465	20.45	2.079	0.783	2.861	3.079	1.822
	12.26	12.12	417	51	0.22	0.121246	20.47	2.077	0.783	2.860	3.077	1.821
	12.33	12.19	417	51	0.21	0.121948	20.48	2.075	0.785	2.861	3.075	1.823
	12.41	12.27	416	51	0.21	0.122739	20.50	2.068	0.785	2.854	3.068	1.820
	12.48	12.34	417	51	0.21	0.123441	20.52	2.072	0.785	2.857	3.072	1.821
	12.57	12.43	417	51	0.21	0.124301	20.54	2.070	0.785	2.855	3.070	1.820
	12.65	12.51	417	51	0.21	0.125082	20.56	2.068	0.785	2.853	3.068	1.819
Γ	12.73	12.59	417	51	0.21	0.125864	20.57	2.066	0.785	2.851	3.066	1.818
F	12.80	12.66	417	51	0.21	0.126566	20.59	2.064	0.785	2.850	3.064	1.818
	12.87	12.73	417	51	0.21	0.127278	20.61	2.063	0.785	2.848	3.063	1.817
Γ	12.95	12.81	417	51	0.21	0.128059	20.63	2.061	0.785	2.846	3.061	1.816
F	13.02	12.88	417	50	0.21	0.128771	20.64	2.059	0.788	2.847	3.059	1.818
F	13.10	12.95	416	51	0.21	0.129483	20.66	2.053	0.785	2.838	3.053	1.812
F	13.17	13.02	416	50	0.21	0.130194	20.68	2.051	0.788	2.839	3.051	1.814
F	13.25	13.10	417	50	0.21	0.130976	20 70	2.054	0,788	2,842	3.054	1.815
F	13.92	13.17	417	50	0.21	0.131688	20.71	2.052	0.791	2.843	3,052	1.817
F	12 20	10.34		50	0.24	0.133300	20.72	2 646	0,799	3 934	3.646	1,911
F	13.46	13.91	416	50	0.21	0.133102	20.75	2 044	0.791	2,935	3,044	1,813
⊦	13 53	13.98	416	50	0.21	0.133812	20.76	2 (42	0.791	2,833	3,042	1,812
┝	12.61	12.40	2.4.6		0.34	0.124505	33.70	2,045	0.704	3,923	2,044	1.011
⊢	12.01	10.00	9.50	50	0.21	0.125335	20.70	2,091	0.791	3,032	2,020	1,910
┝	13.00	10.09	4.50	50	0.21	0.130376	20.00	2,009	0.791	3,910	3,039	1,900
⊢	43.79	43.01	1.00	- 20	0.21	0.110000	20002	2.007	6.754	3,030	5,657	4.000
┡	13.84	13.66	4.16	30 50	0.21	0.135800	20.83	2.035	0.791	2.625	3,035	1.603
┝	13.91	13.76	416	<b>30</b>	0.21	0.157581	20,85	2.033	0.791	2.624	3.033	1.608
╞	13.99	13.83	416	50	0.21	0.158293	20.87	2.082	0.794	2.875	3.032	1.810
L	14.05	13.89	416	- 50	0.21	0.158926	20.89	2.030	0.794	Z.824	3.030	1.809

11:57 a.m.

	Deform.	Celda	Presión	Incremento		Åres	Esfuerzo	13	a'1	#1	Estuerzo
Deformación	Unitaria	Carga	de poros	de poros	Deform.	Corregide	Desvindor	Efectivo	Efectivo	Total	Promedio
(mm)	5	N	(62m)	(kgf/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgf/cm <sup>2</sup> )
14.13	13.97	416	50	0.21	0.139707	20.91	2.028	0.794	2.822	3.028	1.808
14.22	14.06	416	50	0.21	0.140557	20.93	2.026	0.794	2.820	3.026	1.807
14.29	14.13	416	50	0.21	0.141338	20.94	2.025	0.791	2.816	3.025	1.803
14.37	14.21	416	50	0.21	0.142050	20.96	2.023	0.794	2.817	3.023	1.805
14.45	14.28	416	50	0.21	0.142831	20.98	2.021	0.794	2.815	3.021	1.804
14.52	14.35	417	50	0.21	0.143543	21.00	2.024	0.794	2.818	3.024	1.806
14.60	14.43	418	50	0.21	0.144324	21.02	2.027	0.794	2.821	3.027	1.807
14.67	14.50	419	50	0.21	0.145036	21.04	2.030	0.794	2.824	3.030	1.809
14.75	14.58	<b>1</b> 4	50	0.20	0.145817	21.05	2.029	0.797	2.825	3.029	1.811
14.82	14.65	419	50	0.20	0.146529	21.07	2.027	0.797	2.823	3.027	1.810
14.90	14.73	420	50	0.20	0.147310	21.09	2.030	0.797	2.826	3.030	1.811
14.97	14.80	420	50	0.20	0.148022	21.11	2.028	0.797	2.825	3.028	1.811
15.05	14.88	420	50	0.20	0.148804	21.13	2.026	0.797	2.823	3.026	1.810
15.13	14.96	420	50	0.20	0.149585	21.15	2.024	0.797	2.821	3.024	1.809
15.21	15.04	4	49	0.20	0.150366	21.17	2.018	0.799	2.817	3.018	1.808
15.29	15.12	419	49	0.20	0.151216	21.19	2.016	0.799	2.815	3.016	1.807
15.37	15.19	41	49	0.20	0.151928	21.21	2.014	0.799	2.813	3.014	1.806
15.44	15.27	419	49	0.20	0.152709	21.23	2.012	0.799	2.812	3.012	1.805
15.52	15.35	418	49	0.20	0.153490	21.25	2.006	0.799	2.805	3.006	1.802
15.60	15.48	417	49	0.20	0.154272	21.27	1.999	0.799	2.798	2.999	1.799
15.67	15.50	415	49	0.20	0.154984	21.28	1.988	0.799	2.787	2.988	1.793
15.75	15.58	414	49	0.20	0.155765	21.30	1.981	0.799	2.780	2.981	1.790
15.82	15.65	414	49	0.20	0.156467	21.32	1.979	0.802	2.782	2.979	1.792
15.90	15.72	413	49	0.20	0.157248	21.34	1.973	0.802	2.775	2.973	1.789
15.98	15.80	413	49	0.20	0.157960	21.36	1.971	0.802	2.773	2.971	1.788
16.05	15.87	413	49	0.20	0.158672	21.38	1.969	0.802	2.772	2.969	1.787
16.13	15.95	413	49	0.20	0.159453	21.40	1.968	0.802	2.770	2.968	1.786
16.19	16.01	414	49	0.20	0.160096	21.41	1.971	0.802	2.773	2.971	1.788
16.26	16.08	415	49	0.20	0.160808	21.43	1.974	0.802	2.776	2.974	1.789
16.34	16.16	415	49	0.20	0.161589	21.45	1.972	0.805	2.777	2.972	1.791
16.41	16.23	415	49	0.20	0.162291	21.47	1.970	0.805	2.775	2.970	1.790
15.49	16.30	415	49	0.20	0.163003	21.49	1.9/4	0.805	1.178	2.974	1.792
16.56	16.37	416	49	0.20	0.163715	21.51	1.972	0.805	2.777	2.972	1.791
16.63	15.44	417	49	0.20	0.164426	21.52	1.975	0.805	2.780	2.575	1.792
10.71	10.32	410	40	0.20	0.165208	21.54	1.976	0.000	2.703	2.378	1.734
15.78	15.59	417	48	0.19	0.165920	21.56	1.9/1	0.808	2.379	2.971	1.793
10.00	10.07	410	40	0.20	0.100701	21.30	1.374	0.000	4.373	2.374	1.792
15.95	16.74	41	46	0.19	0.16/413	21.60	1.977	0.808	2.765	2.377	1.796
17.02	16.99	400	40	0.19	0.100134	21.02	1.973	0.000	3,795	2.373	1.793
17.16	16.07	400	40	0.19	0.100677	21.00	1.077	0.000	3,705	2.072	1,704
17.26	17.05	420	48	0.19	0.100077	21.00	1.977	0.000	2,769	2.977	1.795
17.99	17.12	400		0.10	0.171720	25.70	1.072	0.000	3,704	2.672	1 204
17.32	17.12	400	40	0.19	0.171235	21.70	1.071	0.000	2.701	2.373	1.7.99
17.47	17.27	419	48	0.19	0 172732	21.74	1965	0.808	2 772	2 965	1,790
17.54	17.94	420	48	0.19	0.173444	21.76	1 968	0.810	2 778	2 968	1 794
17.63	17.48	420	49	0.19	0.174295	21.78	1 966	0.810	2 776	2 966	1 793
17 70	17.50	420	48	0.19	0.175007	21.80	1964	0.810	2,774	2,964	1,792
17.78	17.58	419	48	0.19	0.175788	21.82	1.957	0.810	2,768	2,957	1,789
17.86	17.66	419	48	0.19	0.176569	21.84	1.956	0.810	2,766	2,956	1,788
17.93	17.78	420	48	0.19	0.177281	21.86	1.959	0.810	2,769	2,959	1,790
18.01	17.81	420	48	0.19	0.178062	21.88	1.957	0.810	2.767	2.957	1.789

	Deform.	Celda	Presión	Incremento		Åres	Esfuerzo	13	11	11	Estuerzo
Deformación	Unitaria	Cargo	de poros	de poros	Deform.	Corregida	Desvindor	Efectivo	Efectivo	Total	Promedio
4mm)	8	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgf/cm*)	(kgt/cm <sup>2</sup> )	(kgi/cm <sup>*</sup> )	(kg(/cm <sup>*</sup> )
18.08	17.88	419	44	0.19	0.178774	21.90	1.950	0.810	2.761	2.950	1.786
18.16	17.96	419	48	0.19	0.179555	21.92	1.948	0.813	2.762	2.948	1.787
18.23	18.03	419	4	0.19	0.180267	21.94	1.947	0.813	2.760	2.947	1.787
18.30	18.10	418	48	0.19	0.180969	21.96	1.940	0.813	2.754	2.940	1.783
18.38	18.18	417	48	0.19	0.181750	21.98	1.934	0.813	2.747	2.934	1.780
18.45	18.25	416	4	0.19	0.182462	22.00	1.928	0.813	2.741	2.928	1.777
18.53	18.32	416	48	0.19	0.183174	22.02	1.926	0.813	2.739	2.926	1.776
18.60	18.40	416	4	0.19	0.183955	22.04	1.924	0.813	2.737	2.924	1.775
18.68	18.47	416	48	0.19	0.184667	22.06	1.922	0.813	2.736	2.922	1.774
18.75	18.54	415	4	0.19	0.185379	22.08	1.916	0.813	2.729	2.916	1.771
18.83	18.62	415	48	0.19	0.186160	22.10	1.914	0.813	2.728	2.914	1.770
18.90	18.69	45	4	0.19	0.186872	22.12	1.913	0.813	2.726	2.913	1.770
18.98	18.77	415	48	0.19	0.187653	22.14	1.911	0.813	2.724	2.911	1.769
19.05	18.84	415	48	0.18	0.188355	22.16	1.909	0.816	2.725	2.909	1.771
19.13	18.91	415	42	0.18	0.189136	22.18	1.907	0.816	2.723	2.907	1.770
19.20	18.98	415	48	0.18	0.189848	22.20	1.906	0.816	2.722	2.906	1.769
19.27	19.06	415	4	0.18	0.190560	22.22	1.904	0.816	2.720	2.904	1.768
19.35	19.13	415	47	0.18	0.191341	22.24	1.902	0.819	2.721	2.902	1.770
19.42	19.21	416	48	0.18	0.192053	22.26	1.905	0.816	2.721	2.905	1.769
19.50	19.28	416	44	0.18	0.192765	22.28	1.903	0.816	2.719	2.903	1.768
19.57	19.35	417	47	0.18	0.193546	22.30	1.906	0.819	2.725	2.906	1.772
19.65	19.43	415	47	0.18	0.194258	22.32	1.914	0.819	2.732	2.914	1.776
19.73	19.50	419	47	0.18	0.195040	22.34	1.912	0.819	2.731	2.912	1.775
19.80	19.58	419	47	0.18	0.195821	22.36	1.910	0.819	2.729	2.910	1.774
19.88	19.65	419	47	0.18	0.196533	22.38	1.908	0.819	2.727	2.908	1.773
		1	1	Etap	a de falla te	rcer incren	nento	-	T		
Deformación	Deform.	Celda	Presión	Incremento	Deform	Area	Esfuerzo	s'3	a'1	a1	Estuerzo
(mm)	Unitaria	Cargo	de poros	deporos	Unitaria	Corregide	Desvindor	Efectivo	Efectivo	Total	Promedio
	*	N	(82%)	(kgi/cm*)		(cm*)	(kgi/cm')	(kgt/cm*)	(kgt/cm*)	(kgt/cm*)	(lgt/cm*)
0.00	0.00	0	27	0.00	0.0000000	18.30	0.000	2.000	2.000	2.000	2.000
0.07	0.07	62	28	0.01	0.000718	18.32	0.345	1.994	2.339	2.345	2.167
0.14	0.14	74	28	0.01	0.001437	18.33	0.412	1.989	2.400	2.412	2.195
0.21	0.21	85	29	0.02	0.002085	18.34	0.472	1.980	2.453	2.472	2.217
0.29	0.29	94	30	0.03	0.002873	18.36	0.522	1.975	2.497	2.522	2.236
0.35	0.35	102	30	0.03	0.003512	18.37	0.566	1.969	2.535	2.566	2.252
0.43	0.43	110	31	0.04	0.004300	18.38	0.610	1.964	2.574	2.610	2.269
0.50	0.50	118	31	0.04	0.005018	18.40	0.654	1.958	2.612	2.654	2.285
0.58	0.58	125	32	0.05	0.005806	18.41	0.692	1.953	2.645	2.692	2.299
0.65	0.65	132	32	0.05	0.006525	18.42	0.730	1.947	2.677	2.730	2.312
0.73	0.72	138	33	0.06	0.007243	18.44	0.763	1.944	2.707	2.763	2.326
0.80	0.80	145	33	0.06	0.007961	18.45	0.801	1.939	2.740	2.801	2.339
0.88	0.87	151	34	0.07	0.008750	18.47	0.834	1.933	2.767	2.834	2.350
0.95	0.95	156	34	0.07	0.009468	18.48	0.861	1.928	2.788	2.861	2.358
1.03	1.03	162	35	0.08	0.010256	18.49	0.893	1.922	2.815	2.893	2.368
1.10	1.10	167	8	0.08	0.010964	18.51	0.920	1.916	2.836	2.920	2.376
1.17	1.17	173	36	0.09	0.011683	18.52	0.952	1.911	2.863	2.952	2.387
1.25	1.25	178	36	0.09	0.012471	18.53	0.979	1.908	2.887	2.979	2.398
1.33	1.33	183	- 37	0.10	0.013259	18.55	1.005	1.902	2.908	3.006	2.405
1.41	1.40	188	37	0.10	0.014047	18.56	1.032	1.897	2.929	3.032	2.413
1.48	1.48	193	38	0.11	0.014766	18.58	1.059	1.894	2.953	3.059	2.424
1.56	1.56	198	38	0.11	0.015554	18.59	1.086	1.889	2.974	3.086	2.431

	Deform.	Gelde	Presión	Incremento		Åres	Lafuerzo	13	- 11	:1	Estuerzo
Deformación	Unitaria	Carro	de poros	de poros	Deform.	Correctide	Demindor	Efectivo	Efectivo	Total	Promedio
(mm)	5	N	(kPa)	(kgf/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgt/cm <sup>2</sup> )
1.63	1.63	202	39	0.12	0.016272	18.61	1.107	1.883	2.990	3.107	2.436
1.70	1.70	206	39	0.12	0.016990	18.62	1.128	1.880	3.008	3.128	2.444
1.78	1.77	209	40	0.13	0.017709	18.63	1.143	1.875	3.018	3.143	2.446
1.85	1.84	213	40	0.13	0.018417	18.65	1.164	1.869	3.033	3.164	2.451
1.92	1.91	217	41	0.14	0.019135	18.66	1.185	1.863	3.049	3.185	2.456
2.00	1.99	221	41	0.14	0.019924	18.68	1.206	1.861	3.067	3.206	2.464
2.07	2.06	225	42	0.14	0.020642	18.69	1.227	1.855	3.082	3.227	2.469
2.14	2.14	229	42	0.15	0.021360	18.70	1.248	1.852	3.100	3.248	2.476
2.21	2.21	233	42	0.15	0.022078	18.72	1.269	1.847	3.116	3.269	2.481
2.29	2.28	236	43	0.16	0.022797	18.73	1.284	1.841	3.126	3.284	2.483
2.36	2.35	240	43	0.16	0.023505	18.74	1.305	1.838	3.144	3.305	2.491
2.43	2.42	244	44	0.17	0.024223	18.76	1.326	1.833	3.159	3.326	2.496
2.51	2.50	248	44	0.17	0.025012	18.77	1.347	1.827	3.174	3.347	2.501
2.57	2.57	251	- 44	0.17	0.025660	18.79	1.362	1.827	3.189	3.362	2.508
2.65	2.64	255	45	0.18	0.026448	18.80	1.383	1.819	3.201	3.383	2.510
2.72	2.72	259	45	0.18	0.027167	18.81	1.403	1.816	3.219	3.403	2.518
2.80	2.79	263	46	0.19	0.027885	18.83	1.424	1.813	3.237	3.424	2.525
2.86	2.85	269	46	0.19	0.028523	18.84	1.455	1.808	3.263	3.455	2.535
2.93	2.92	273	47	0.20	0.029242	18.85	1.476	1.805	3.281	3.476	2.543
3.01	3.00	277	47	0.20	0.030030	18.87	1.496	1.799	3.296	3.496	2.548
3.08	3.07	281	47	0.20	0.030748	18.88	1.517	1.797	3.313	3.517	2.555
3.16	3.15	285	48	0.21	0.031536	18.90	1.537	1.794	3.331	3.537	2.562
3.23	3.23	288	48	0.21	0.032255	18.91	1.552	1.788	3.340	3.552	2.564
3.31	3.30	292	48	0.21	0.033043	18.93	1.572	1.785	3.358	3.572	2.572
3.39	3.38	295	49	0.22	0.033831	18.94	1.587	1.780	3.367	3.587	2.574
3.46	3.45	298	49	0.22	0.034549	18.96	1.602	1.777	3.379	3.602	2.578
3.54	3.53	301	-50	0.23	0.035338	18.97	1.617	1.774	3.391	3.617	2.583
3.62	3.61	304	50	0.23	0.036126	18.99	1.632	1.771	3.403	3.632	2.587
3.70	3.69	305	50	0.23	0.036914	19.01	1.641	1.766	3.407	3.641	2.587
3.78	3.77	309	51	0.24	0.037702	19.02	1.656	1.763	3.419	3.656	2.591
3.86	3.85	311	51	0.24	0.038490	19.04	1.665	1.760	3.426	3.665	2.593
3.94	3.93	314	51	0.24	0.039348	19.05	1.680	1.758	3.437	3.680	2.597
4.02	4.01	317	52	0.25	0.040136	19.07	1.695	1.755	3.449	3.695	2.602
4.10	4.09	313	52	0.25	0.040925	19.08	1,704	1,749	3.453	3.704	2.601
4.17	4.15	322	52	0.25	0.041643	19.10	1.715	1.746	3.465	3.719	2.606
4.26	4.25	325	53	0.26	0.042501	19.12	1,733	1,744	3,477	3.733	2.610
4.34	4.33	327	53	0.26	0.043289	19.13	1.742	1.738	3,480	3.742	2.609
4.42	4.41	528	53	0.26	0.044077	19.15	1.748	1.738	3.484	3.746	2.611
4.50	4.49	330	24	0.27	0.044885	19.16	1.755	1.732	3.488	3.755	2.610
4.57	4.30	231	24	0.27	0.045584	19.18	1.759	1.730	3,489	3./39	2.609
4.65	4.04	332	25	0.27	0.046372	19.19	1.763	1.727	3.450	3.763	2.508
4.72	4.71	334	20	0.28	0.047090	19.21	1.773	1.729	3,497	3.773	2.510
4.79	4.78	2.35	20	0.28	0.047798	19.72	1.782	1.721	3.503	3.782	2.512
4.66	4.85	339	25	0.27	0.048517	19.24	1,000	1.727	3.323	3./96	2.023
4.34 7.54	9.32	341	5	0.27	0.040235	10.45	1.000	4.723	3,332	3,606	2.630
5.01	5.00	343	20	0.28	0.049953	19.27	1.615	1.724	3.539	3.615	2.631
5.00	5.07	345	20 52	0.20	0.050742	19.20	1,009	1.721	3,340	3.029	2.033
2.10	2.13	2417	30	0.20	0.051460	10.30	1.633	4.740	3.349	3,633	2.032
5.24	5.22	349	20	0.29	0.052248	19.31	1.092	1.713	3,335	3.642	2.034
5.31	5.30	332	20	0.23	0.052366	10.33	1.607	1.710	3.367	3,637	2.030
5.38	5.37	334	25	0.29	0.053675	13.34	1.605	1.707	3.575	3,666	2.640
3.80	2.44	334	37	0.30	0.0043333	13.30	1.000	1,705	3,360	3,660	4.040

	Deform.	Celda	Presión	Incremento		Åres	Estuerzo	1'3	- 11	s1.	Estuerzo
Deformación	Unitaria	Cargo	de poros	de poros	Deform.	Corregida	Derviedor	Efectivo	Electivo	Total	Promedio
(mm)	<b>%</b>	N	(kPn)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(ligt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgt/cm <sup>2</sup> )
5.53	5.52	359	57	0.30	0.055181	19.37	1.889	1 702	3 591	3,889	2.646
5.61	5.60	362	57	0.30	0.055969	19.39	1.903	1,699	3.602	3,903	2.651
5.68	5.66	365	57	0.30	0.056618	19.40	1.918	1,696	3,614	3.918	2,655
5.75	5.74	367	58	0.31	0.057406	19,42	1.927	1.693	3.620	3.927	2.657
5.83	5.82	370	58	0.31	0.058194	19.43	1.941	1.691	3,631	3.941	2,661
5.91	5.89	373	58	0.31	0.058913	19.45	1.955	1.688	3.643	3,955	2.665
5.98	5.97	375	59	0.31	0.059701	19.47	1.964	1.685	3.649	3.964	2.667
6.06	6.04	377	59	0.32	0.060419	19.48	1.973	1.682	3,655	3.973	2,669
6.14	6.12	379	59	0.32	0.061207	19,50	1.982	1.679	3,661	3,982	2.670
6.21	6.20	381	59	0.32	0.061995	19,51	1,990	1.677	3.667	3,990	2.672
6.29	6.27	383	60	0.33	0.062704	19.53	1 999	1.674	3.673	3 999	2.674
6.36	6.35	385	60	0.33	0.063492	19.54	2.008	1.671	3.679	4.008	2.675
6.44	6.43	387	60	0.33	0.064290	19.56	2 017	1.668	3.685	4.017	2 677
6.52	6.50	339	60	0.33	0.054998	19.58	2 005	1.666	3,691	4.026	2.678
6.59	6.57	290	61	0.34	0.065717	19.59	2 629	1.663	3,692	4,029	2.677
6.66	6.64	392	61	0.34	0.055435	19.61	2.038	1.660	3,698	4.038	2.679
6.74	6.72	394	61	0.34	0.067223	19.62	2 047	1.660	3 707	4.047	2.683
6.91	6.70	204	61	0.24	0.067841	10.64	3,056	1 657	2 712	4.056	2 6 9 5
6.88	6.87	397	62	0.35	0.068660	19.65	2.059	1.654	3 714	4,059	2.684
6.95	6.94	397	62	0.35	0.069368	19.67	2.058	1.652	3,709	4,058	2.680
7.00	2.03	200	63	0.35	0.020155	10.00	3,000	1 6 4 0	0.746	1 000	2.000
7.10	7.08	401	62	0.35	0.070805	19.70	2.000	1.649	3,734	4.075	2.686
7.47	7.46	400	60	0.35	0.074530	40.74	3,000	4 6 4 5	3,735	4,0070	3 600
7.17	7.13	402	63	0.36	0.071523	19.71	2.0/9	1,640	3.722	4,079	2.003
7.45	7.20	405	63	0.36	0.072020	10.75	2.007	1,640	3.731	4,001	2.00/
7.52	7.00	400		0.30	0.070340	40.75	2,000	1.040	3.3.34	40001	2.000
7.32	7.37	407	6.5	0.30	0.073740	10.79	2.100	1,636	3.737	4,100	2.00/
1.47	7,40	4.00	0.4	0.37	0.074330	13.70	2.113	1,030	3.340	4.115	2.001
7.54	7.52	411	64	0.37	0.075244	19.79	2.117	1.632	3.749	4.117	2.690
7.01	7.60	415	64	0.37	0.075965	13.61	2.125	1,632	3./3/	4,125	2.095
7.00	7.07	1.01	04	0.37	0.070001	13,62	2.129	1.023	3.730	4,129	2.034
7.77	7.75	41/	64	0.37	0.077469	19.84	2.142	1.627	3.769	4.142	2.698
1.04	1.02	- 19	80	0.30	0.070100	13.00	2.140	1029	3.770	4,140	2.037
7.91	7.89	420	8	0.38	0.078905	19,87	2.155	1.621	3.775	4.155	2.658
7.98	7.95	422	80	0.38	0.079624	19,89	Z.155	1.621	3.784	4.163	2.703
0.00	0.05	9425	80	0.30	0.080333	13.30	2.1/7	1.010	3./35	4.177	2.307
8.13	8.11	4.25	80	0.38	0.081121	19.92	2.180	1.615	3.735	4.180	2.705
0.20	0.10	442	89	0.30	0.061639	19.93	2,194	1.012	3.809	4,134	2.7.12
8.28	8.25	431	66	0.39	0.082557	19.95	2.202	1.613	3.815	4.202	2.714
8.35	8.33	432	00	0.39	0.083346	19.97	2.205	1.610	3.815	4.205	2.713
6.4.0	0.41	434	00	0.39	0.004004	13.36	2.214	1.607	3.871	4.2.14	2.7.19
8.51	8.49	435	66	0.39	0.084852	20,00	2.222	1.607	3.829	4.222	2.718
8.56	8.35	4.38	67	0.40	0.085570	20.02	2.231	1.504	3.835	4.231	2.320
8.66	8.64	439	67	0.40	0.086358	20.03	2.234	1.601	3.835	4.234	2.718
8.73	8.71	440	67	0.40	0.087077	20.05	2.237	1.599	3.836	4.237	2.717
8.81	8.79	441	67	0.40	0.087935	20.07	2.240	1.599	3.839	4.240	2.719
8.89	8.87	442	67	0.40	0.088723	20.09	2.243	1.596	3.839	4.243	2.717
8.97	8.95	443	67	0.40	0.089511	20.10	2.246	1.596	3.842	4.246	2.719
9.05	9.03	444	68	0.41	0.090299	20.12	2.249	1.593	3.843	4.249	2.718
9.13	9.11	445	68	0.41	0.091087	20.14	2.253	1.590	3.843	4.253	2.317
9.21	9.19	446	68	0.41	0.091876	20.16	1.256	1.588	3.843	4.256	2.715
9.30	9.27	448	68	0.41	0.092734	20.17	2.264	1.588	3.851	4.264	2.719
9.37	9.35	448	69	0.42	0.098522	20.19	2.262	1.585	3.846	4.262	2.716

Imm         Unitaria         Gargin         Department         Compage         Devalues         Effective         Effective<			Deform.	Celda	Presión	Incremento		Åres	Esfuerzo	13	11	=1	Estuerzo
imm)         s         s         (pro)         (perform)		Deformación	Unitaria	Carva	de poros	de poros	Deform.	Correctide	Dervindor	Efectivo	Efectivo	Total	Promedio
9.45         9.45         9.45         6.9         0.42         0.095012         2021         2.270         1.582         3.855         4.370         2.270           9.50         9.50         450         69         0.42         0.095012         0.024         2.271         1.579         3.850         4.371         1.273           9.58         9.51         69         0.42         0.095515         0.024         2.271         1.579         3.850         4.371         2.75           9.52         9.73         452         69         0.42         0.097515         0.024         2.271         1.576         3.851         4.372         2.712           9.86         457         70         0.43         0.099198         2032         2.282         1.571         3.853         4.312         2.712           10.04         10.01         455         70         0.43         0.109155         2.037         1.583         3.851         4.318         2.712           10.14         10.08         457         0.43         0.109155         2.037         1.583         3.857         4.335         2.738           10.15         10.28         10.28         70         0.43		(mm)		N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgt/cm <sup>2</sup> )
9.53         9.50         450         69         0.42         0.095028         20.23         2.288         1.522         3.890         4.281         2.716           9.56         9.55         9.56         9.56         9.62         0.095515         0.012         2.174         1.579         3.850         4.271         2.715           9.57         9.73         452         69         0.42         0.097513         0.012         2.187         1.576         3.849         4.271         2.717           9.84         64.86         0.42         0.097513         0.012         2.181         1.576         3.849         4.217         2.711           9.84         64.55         70         0.43         0.009188         0.032         2.282         1.571         3.853         4.212         2.711           10.04         10.01         455         70         0.43         0.100151         0.032         2.305         1.565         3.870         4.365         2.716           10.13         10.04         451         71         0.44         0.100716         2.044         1.503         3.877         4.315         2.716           10.13         10.05         471         0.	٢	9.45	9.43	450	69	0.42	0.094310	20.21	2.270	1.585	3.855	4.270	2,720
9.60         9.88         451         69         0.42         0.09535         20.24         2.271         1.579         3.853         4.271         2.715           9.86         9.65         4.52         69         0.42         0.09535         20.28         2.271         1.576         3.853         4.274         2.715           9.82         9.80         454         69         0.42         0.09784         20.28         2.271         1.576         3.853         4.271         2.713           9.84         9.84         455         70         0.43         0.09816         20.33         2.281         1.568         3.853         4.282         2.2711           10.04         10.016         458         70         0.43         0.10153         20.35         2.585         3.867         4.282         2.711           10.11         10.06         488         70         0.43         0.10153         20.35         2.595         3.870         4.302         2.718           10.25         10.34         0.103         4.00         1.0113         0.026         2.313         1.560         3.870         4.313         2.718           10.44         0.103696         2.71 <td></td> <td>9.53</td> <td>9.50</td> <td>450</td> <td>69</td> <td>0.42</td> <td>0.095028</td> <td>20.23</td> <td>2.268</td> <td>1.582</td> <td>3.850</td> <td>4.268</td> <td>2.716</td>		9.53	9.50	450	69	0.42	0.095028	20.23	2.268	1.582	3.850	4.268	2.716
9.58         9.52         4.52         69         0.42         0.09535         20.26         2.774         1.579         3.853         4.274         2.716           9.75         9.73         452         69         0.42         0.09783         20.28         2.172         1.576         3.849         4.272         2.211           9.84         455         70         0.43         0.098910         20.31         2.273         1.574         3.853         4.242         2.712           10.04         10.01         456         70         0.43         0.10015         20.34         2.281         1.571         3.853         4.242         2.711           10.11         10.08         458         70         0.43         0.10015         20.34         2.281         1.571         3.853         4.242         2.716           10.12         10.12         460         71         0.43         0.10025         20.31         1.581         3.867         4.313         2.716           10.12         10.16         466         71         0.44         0.10274         20.44         2.131         1.560         3.864         4.324         2.721           10.10         10.16		9.60	9.58	451	69	0.42	0.095816	20.24	2.271	1.579	3.850	4.271	2.715
9.75         9.73         452         69         0.42         0.09753         20.28         2.711         1.576         1.887         4.212         2.713           9.80         454         69         0.42         0.09761         20.31         2.771         1.574         1.883         4.272         2.713           9.96         9.94         455         70         0.43         0.099398         20.32         2.282         1.571         3.883         4.282         2.711           10.04         456         70         0.43         0.100185         20.34         2.283         1.586         3.862         4.294         2.715           10.11         10.026         458         70         0.43         0.102615         20.39         2.805         1.855         3.870         4.302         2.718           10.25         10.33         463         71         0.44         0.10365         20.41         2.131         1.562         3.870         4.302         2.712           10.40         10.38         464         71         0.44         0.106293         2.042         2.131         1.560         3.876         4.312         2.722           10.54         466		9.68	9.65	452	69	0.42	0.096535	20.26	2.274	1.579	3.853	4.274	2.716
9.82         9.90         454         69         0.42         0.037%1         20.29         2.81         1.576         3.857         4.281         2.717           9.88         9.46         455         70         0.43         0.0998610         20.32         2.221         1.571         3.853         4.279         2.713           10.04         10.01         456         70         0.43         0.100155         20.33         2.284         1.588         3.823         4.228         2.713           10.11         10.08         458         70         0.43         0.10025         20.37         2.502         1.565         3.867         4.302         2.716           10.03         466         71         0.43         0.100250         20.39         2.105         1.565         3.877         4.305         2.718           10.33         10.36         463         71         0.44         0.103768         20.42         2.116         1.550         3.875         4.315         2.719           10.47         10.48         6.71         0.44         0.10574         20.45         2.131         1.562         3.875         4.340         2.727           10.45         10.56		9.75	9.73	452	69	0.42	0.097253	20.28	2.272	1.576	3.849	4.272	2,713
9.88         9.86         454         70         0.43         0.09939         20.32         2.123         1.574         3.453         4.219         2.713           9.96         9.94         455         70         0.43         0.099398         20.32         2.182         1.554         3.453         4.232         2.711           10.04         455         70         0.43         0.100835         20.32         2.182         1.554         3.457         4.305         2.715           10.18         465         71         0.43         0.100255         20.32         5.155         3.467         4.305         2.715           10.33         10.30         463         71         0.44         0.100468         2.041         1.585         3.470         4.305         2.713           10.54         466         71         0.44         0.105486         2.044         2.150         3.487         4.340         2.727           10.52         10.53         468         71         0.44         0.105747         2.046         2.537         3.387         4.340         2.727           10.52         10.53         468         71         0.44         0.105693         2.047		9.82	9.80	454	69	0.42	0.097961	20.29	2.281	1.576	3.857	4.281	2.717
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	F	9.88	9.86	454	70	0.43	0.098610	20.31	2.279	1.574	3.853	4.279	2.713
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	F	9.96	9.94	455	70	0.43	0.099398	20.32	2,282	1.571	3.853	4,282	2,712
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		10.04	10.01	456	70	0.43	0.100116	20.34	2.285	1.568	3.853	4.285	2.711
10.18            10.16            440            71		10.11	10.08	458	70	0.43	0.100835	20.36	2.294	1.568	3.862	4,294	2,715
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		10.18	10.16	460	71	0.43	0.101553	20.37	2.302	1.565	3.867	4,302	2.716
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		10.25	10.23	461	71	0.43	0.102261	20.39	2.305	1.565	3.870	4,305	2.718
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		10.33	10.30	463	71	0.44	0.103050	20.41	2.313	1.562	3.875	4,313	2,719
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		10.40	10.38	464	71	0.44	0.103768	20.42	2.316	1.560	3.876	4,316	2,718
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	F	10.47	10.45	466	71	0.44	0.104486	20.44	2.324	1.560	3.884	4.324	2,722
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		10.55	10.53	468	71	0.44	0.105274	20.46	2.332	1.560	3.892	4,332	2,726
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		10.62	10.60	470	71	0.44	0.105993	20.47	2.340	1.557	3.897	4,340	2,727
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		10.70	10.68	472	72	0.45	0.106781	20.49	2.348	1.554	3,902	4.348	2,728
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		10.78	10.75	474	72	0.45	0.107499	20.51	2.356	1.554	3.910	4,356	2,732
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-	10.85	10.83	476	72	0.45	0.108287	20.53	2.364	1.551	3.915	4.364	2.733
1101         10.98         479         72         0.455         0.109734         20.56         2.375         1.549         3.923         4.375         2.736           11.08         11.06         480         72         0.455         0.110582         20.58         2.378         1.549         3.926         4.378         2.737           11.16         11.13         482         72         0.45         0.11209         20.60         2.384         1.546         3.939         4.336         2.739           11.13         11.29         485         73         0.46         0.112867         20.63         2.394         1.540         3.939         4.396         2.741           11.39         11.37         488         73         0.46         0.112867         20.63         2.399         1.540         3.937         4.407         2.744           11.52         11.52         489         73         0.46         0.11541         2.640         1.537         3.950         4.413         2.744           11.62         11.57         490         73         0.46         0.11574         20.70         2.413         1.537         3.953         4.415         2.745           11.7		10.93	10.90	477	72	0.45	0.109006	20.54	2 367	1 551	3 918	4 367	2.735
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-	11.01	10.98	479	72	0.45	0.109794	20.56	2.375	1.549	3.923	4.375	2,736
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	-	11.08	11.05	480	72	0.45	0.110582	20.58	2 378	1 549	3 926	4 378	2 737
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		11.16	11.13	480	72	0.45	0.111290	20.60	2 386	1 546	3 931	4 386	2 7 3 9
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	-	11.23	11.20	484	72	0.45	0.112009	20.61	2.394	1.546	3,939	4,394	2,743
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	-	11 31	11.29	485	73	0.46	0.112867	20.63	2 396	1543	3 9 3 9	4 396	2 741
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-	11.39	11.37	486	73	0.46	0.113665	20.65	2,399	1.540	3,939	4,399	2,740
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	-	11.47	11.45	4.98	79	0.46	0.114453	20.67	2.407	1 540	3.947	4.407	2.744
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	-	11.55	11.52	4.99	73	0.46	0.115241	20.69	2 410	1 537	3 947	4.410	2 742
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	-	11.62	11.59	490	73	0.46	0.115949	20.70	2.413	1.537	3,950	4.413	2,744
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	-	11.70	11.67	491	73	0.46	0.116738	20.72	2.415	1 537	3 953	4.415	2.745
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	-	11.78	11.75	492	74	0.47	0.117526	20.74	2 418	1 595	3 953	4.418	2 744
1125         1125 <th< td=""><td>-</td><td>11.85</td><td>11.82</td><td>494</td><td>74</td><td>0.47</td><td>0 118244</td><td>20.76</td><td>2.426</td><td>1 595</td><td>3,960</td><td>4.426</td><td>2 748</td></th<>	-	11.85	11.82	494	74	0.47	0 118244	20.76	2.426	1 595	3,960	4.426	2 748
12.00         11.97         496         74         0.47         0.119681         20.79         2.432         1.532         3.964         4.432         2.748           12.07         12.04         496         74         0.47         0.120399         20.81         2.430         1.529         3.954         4.430         2.744           12.14         12.11         498         74         0.47         0.12117         20.83         2.438         1.529         3.957         4.438         2.744           12.21         12.18         499         74         0.47         0.121826         20.84         2.440         1.526         3.967         4.440         2.746           12.29         12.26         500         74         0.47         0.122614         20.86         2.443         1.526         3.969         4.443         2.748           12.36         12.33         501         75         0.48         0.12332         20.88         2.446         1.523         3.969         4.446         2.746           12.43         12.41         502         75         0.48         0.12451         20.90         2.445         1.523         3.977         4.446         2.748	-	11.92	11.90	495	74	0.47	0.118962	20.77	2.429	1 532	3 961	4.429	2 746
12.07         12.04         496         74         0.47         0.120399         20.81         2.430         1.529         3.959         4.430         2.744           12.14         12.11         498         74         0.47         0.121117         20.83         2.438         1.529         3.959         4.430         2.744           12.14         12.18         499         74         0.47         0.121826         20.84         2.440         1.526         3.967         4.438         2.748           12.29         12.26         500         74         0.47         0.121826         20.84         2.440         1.526         3.967         4.440         2.746           12.29         12.26         500         74         0.47         0.123312         20.88         2.446         1.523         3.969         4.443         2.748           12.43         12.41         502         75         0.48         0.124051         20.90         2.446         1.523         3.972         4.449         2.748           12.51         12.48         504         75         0.48         0.12655         20.91         2.456         1.521         3.977         4.456         2.749	-	12.00	11.97	496	74	0.47	0.119681	20,79	2.432	1.532	3.964	4,432	2,748
12.14         12.11         498         74         0.47         0.121117         20.83         2.438         1.529         3.957         4.438         2.748           12.21         12.18         499         74         0.47         0.121117         20.83         2.438         1.529         3.957         4.438         2.748           12.21         12.18         499         74         0.47         0.121826         20.84         2.440         1.526         3.967         4.440         2.746           12.29         12.26         500         74         0.47         0.122614         20.86         2.443         1.526         3.969         4.443         2.748           12.36         12.33         501         75         0.48         0.123332         20.88         2.446         1.523         3.969         4.446         2.746           12.43         12.41         502         75         0.48         0.124839         20.91         2.456         1.521         3.977         4.445         2.748           12.59         12.56         505         75         0.48         0.12557         20.93         2.459         1.521         3.980         4.459         2.750	F	12.07	12.04	496	74	0.47	0.120399	20.81	2,430	1 529	3 959	4.430	2 744
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	F	12.14	12.11	498	74	0.47	0 121117	20.83	2 438	1 529	3 967	4.438	2 748
1229         1226         500         74         0.47         0.122614         20.86         2.443         1.526         3.969         4.443         2.748           12.36         12.33         501         75         0.48         0.123332         20.88         2.443         1.526         3.969         4.443         2.748           12.36         12.33         501         75         0.48         0.123332         20.88         2.446         1.523         3.969         4.446         2.748           12.43         12.41         502         75         0.48         0.124051         20.90         2.449         1.523         3.972         4.449         2.748           12.59         12.56         505         75         0.48         0.12557         20.90         2.459         1.521         3.977         4.456         2.749           12.56         12.63         506         75         0.48         0.12557         20.93         2.459         1.521         3.980         4.459         2.750           12.56         12.63         506         75         0.48         0.12764         20.97         2.465         1.521         3.985         4.465         2.753      <	F	12.21	12.18	499	74	0.47	0.121826	20.84	2.440	1,526	3.967	4,440	2,746
12.36         12.33         501         75         0.48         0.123332         20.88         2.446         1.523         3.969         4.446         2.746           12.43         12.41         502         75         0.48         0.123332         20.88         2.446         1.523         3.969         4.446         2.746           12.43         12.41         502         75         0.48         0.124051         20.90         2.449         1.523         3.972         4.449         2.748           12.51         12.48         504         75         0.48         0.124839         20.91         2.456         1.521         3.977         4.456         2.749           12.59         12.56         505         75         0.48         0.12557         20.93         2.459         1.521         3.980         4.459         2.750           12.56         12.63         506         75         0.48         0.126275         20.95         2.462         1.521         3.983         4.462         2.752           12.74         12.71         507         75         0.48         0.127782         20.97         2.465         1.521         3.985         4.465         2.753	F	12.29	12.26	500	74	0.47	0.122614	20.86	2.443	1.526	3.969	4.443	2.748
12.43         12.41         502         75         0.48         0.124051         20.90         2.449         1.523         3.972         4.449         2.748           12.51         12.48         504         75         0.48         0.124051         20.90         2.449         1.523         3.972         4.449         2.748           12.51         12.48         504         75         0.48         0.124839         20.91         2.456         1.521         3.977         4.456         2.749           12.59         12.56         505         75         0.48         0.12557         20.93         2.459         1.521         3.980         4.459         2.750           12.66         12.63         506         75         0.48         0.126275         20.95         2.462         1.521         3.983         4.462         2.752           12.74         12.71         507         75         0.48         0.127782         20.97         2.465         1.521         3.985         4.465         2.753           12.81         12.78         509         75         0.48         0.127782         20.99         2.473         1.518         3.990         4.473         2.754	⊢	12.36	12.33	501	75	0.48	0.123332	20.88	2.446	1.523	3,969	4,446	2,746
12.51         12.48         504         75         0.48         0.124839         20.91         2.456         1.521         3.977         4.456         2.749           12.59         12.56         505         75         0.48         0.124839         20.91         2.456         1.521         3.977         4.456         2.749           12.59         12.56         505         75         0.48         0.125557         20.93         2.459         1.521         3.980         4.459         2.750           12.66         12.63         506         75         0.48         0.126275         20.95         2.462         1.521         3.983         4.462         2.752           12.74         12.71         507         75         0.48         0.127064         20.97         2.465         1.521         3.985         4.465         2.753           12.81         12.78         509         75         0.48         0.127782         20.99         2.473         1.518         3.990         4.473         2.754           12.89         12.86         510         76         0.48         0.128570         21.00         2.475         1.515         3.990         4.475         2.753	-	12.43	12.41	502	75	0.48	0.124051	20.90	2.449	1 528	3 972	4.449	2 748
12.59         12.56         505         75         0.48         0.125557         20.93         2.459         1.521         3.980         4.459         2.750           12.66         12.63         506         75         0.48         0.125557         20.93         2.459         1.521         3.980         4.459         2.750           12.66         12.63         506         75         0.48         0.126275         20.95         2.462         1.521         3.983         4.462         2.752           12.74         12.71         507         75         0.48         0.127064         20.97         2.465         1.521         3.985         4.465         2.753           12.81         12.78         509         75         0.48         0.127782         20.99         2.473         1.518         3.990         4.473         2.754           12.89         12.86         510         76         0.48         0.129278         21.00         2.475         1.515         3.990         4.475         2.753           12.96         12.93         511         76         0.48         0.129278         21.02         2.478         1.515         3.993         4.478         2.754		12.51	12.48	504	75	0.48	0.124839	20.91	2.456	1.521	3.977	4,456	2,749
11.15         11.15         11.15         11.15         11.15         11.11         11.15         11.11         11.15         11.15         11.15         11.11         11.15         11.15         11.11         11.15         11.11         11.15         11.11         11.15         11.11         11.15         11.11         11.15         11.11         11.15         11.11         11.15         11.11         11.15         11.11         11.15         11.15         11.15 <th< td=""><td>-</td><td>12.59</td><td>12.56</td><td>505</td><td>75</td><td>0.48</td><td>0.125557</td><td>20.93</td><td>2.459</td><td>1 501</td><td>3.980</td><td>4.459</td><td>2 750</td></th<>	-	12.59	12.56	505	75	0.48	0.125557	20.93	2.459	1 501	3.980	4.459	2 750
12.74         12.71         507         75         0.48         0.127064         20.97         2.465         1.511         2.505         4.465         2.753           12.81         12.78         509         75         0.48         0.127064         20.97         2.465         1.521         3.985         4.465         2.753           12.81         12.78         509         75         0.48         0.127782         20.99         2.473         1.518         3.990         4.473         2.754           12.89         12.86         510         76         0.48         0.128570         21.00         2.475         1.515         3.990         4.473         2.754           12.96         12.93         511         76         0.48         0.129278         21.02         2.478         1.515         3.990         4.478         2.754           13.04         13.01         513         76         0.49         0.130067         21.04         2.485         1.512         3.998         4.485         2.755           13.11         13.08         515         76         0.49         0.130785         21.06         2.493         1.512         4.005         4.493         2.759	F	12.66	12.63	506	75	0.48	0.126275	20.95	2,462	1 501	3 9.83	4.460	2 752
12.81         12.78         509         75         0.48         0.127782         20.99         2.473         1.518         3.990         4.473         2.754           12.89         12.86         510         76         0.48         0.127782         20.99         2.473         1.518         3.990         4.473         2.754           12.89         12.86         510         76         0.48         0.128570         21.00         2.475         1.515         3.990         4.475         2.753           12.96         12.93         511         76         0.48         0.129278         21.02         2.478         1.515         3.990         4.475         2.754           13.04         13.01         513         76         0.49         0.130067         21.04         2.485         1.512         3.998         4.485         2.755           13.11         13.08         515         76         0.49         0.130785         21.06         2.493         1.512         4.005         4.493         2.759           13.18         13.15         517         76         0.49         0.131503         21.07         2.501         1.512         4.013         4.501         2.763	⊢	12.74	12.71	507	75	0.48	0.127064	20.97	2.465	1.521	3,985	4,465	2,753
12.89         12.86         510         76         0.48         0.128570         21.00         2.475         1.515         3.990         4.475         2.753           12.89         12.86         510         76         0.48         0.128570         21.00         2.475         1.515         3.990         4.475         2.753           12.96         12.93         511         76         0.48         0.129278         21.02         2.478         1.515         3.993         4.478         2.754           13.04         13.01         513         76         0.49         0.130067         21.04         2.485         1.512         3.998         4.485         2.755           13.11         13.08         515         76         0.49         0.130785         21.06         2.493         1.512         4.005         4.493         2.759           13.18         13.15         517         76         0.49         0.131503         21.07         2.501         1.512         4.013         4.501         2.763           13.15         517         76         0.49         0.132503         21.07         2.501         1.512         4.013         4.501         2.763           13	⊢	12.81	12.78	509	75	0.48	0 127782	20.99	2.473	1 518	3 990	4.473	2 754
12.96         12.93         511         76         0.48         0.129278         21.02         2.478         1.515         3.993         4.478         2.754           13.04         13.01         513         76         0.49         0.130067         21.04         2.485         1.515         3.993         4.478         2.754           13.04         13.01         513         76         0.49         0.130067         21.04         2.485         1.512         3.998         4.485         2.755           13.11         13.08         515         76         0.49         0.130785         21.06         2.493         1.512         4.005         4.493         2.759           13.18         13.15         517         76         0.49         0.131503         21.07         2.501         1.512         4.013         4.501         2.763           13.25         13.22         520         76         0.49         0.132221         21.09         2.513         1.509         4.023         4.513         2.766	F	12.89	12.86	510	76	0.48	0.128520	21.00	2.475	1 515	3,990	4.475	2 753
13.04         13.01         513         76         0.49         0.130067         21.04         2.485         1.512         3.998         4.485         2.755           13.11         13.08         515         76         0.49         0.130785         21.06         2.493         1.512         4.005         4.493         2.759           13.18         13.15         517         76         0.49         0.131503         21.07         2.501         1.512         4.013         4.501         2.763           13.25         13.22         520         76         0.49         0.132221         21.09         2.513         1.509         4.023         4.513         2.766	⊢	12.96	12.93	511	76	0.48	0.129278	21.02	2.478	1.515	3,993	4,478	2,754
13.11         13.08         515         76         0.49         0.130785         21.06         2.493         1.512         4.005         4.493         2.759           13.18         13.15         517         76         0.49         0.131503         21.07         2.501         1.512         4.005         4.493         2.759           13.18         13.15         517         76         0.49         0.131503         21.07         2.501         1.512         4.013         4.501         2.763           13.25         13.22         520         76         0.49         0.132221         21.09         2.513         1.509         4.023         4.513         2.766	⊢	13.04	13.01	513	76	0.49	0.130067	21.04	2.485	1.512	3 998	4.495	2 755
13.18         13.15         517         76         0.49         0.131503         21.07         2.501         1.512         4.013         4.501         2.763           13.25         13.22         520         76         0.49         0.132221         21.09         2.513         1.509         4.023         4.513         2.765	┝	13.11	13.08	515	76	0.49	0.130785	21.05	2 493	1 512	4 005	4.493	2 759
13.25 13.22 520 76 0.49 0.132221 21.09 2.513 1.509 4.023 4.513 2.765	⊢	13.19	10.10	647	74	0.40	0 131509	21.07	2 604	1 615	4,012	4 504	3 749
and the second	F	13.25	13.22	520	76	0.49	0.132221	21.09	2.513	1.509	4,023	4,513	2,766

Operation         Unitaria         Served (perform)         Description         Compute (perform)         Description         Encise (perform)         Encise (perform)           13.33         11.22         51.         76         0.44         0.132940         21.11         2.516         1.509         4.015         4.512         2.771           13.44         13.45         52.         76         0.44         0.138216         1.112         2.518         1.507         4.003         4.531         2.771           13.54         13.52         52.         76         0.44         0.138216         2.111         2.511         1.507         4.008         4.531         2.771           13.67         528         77         0.50         0.139641         2.124         2.584         1.504         4.042         4.531         2.771           13.70         13.77         529         77         0.50         0.139015         2.124         2.535         1.501         4.048         4.539         2.771           13.44         13.99         529         77         0.50         0.149021         2.124         2.535         1.501         4.048         4.539         2.771           13.44         13.9		Deform.	Celda	Presión	Incremento		Åres	Esfuerzo	a'3	- 11	s1.	Estuerzo
Imm         s         N         0.040         District         (um)         District         Distrid	Deformación	Unitaria	Cargo	de portes	de poros	Deform.	Corregida	Desviedor	Efectivo	Efectivo	Total	Promedio
	(mm)	8	N	(kPa)	(kgf/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kg1/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kat/cm <sup>*</sup> )	(kgt/cm <sup>2</sup> )
13.40         13.37         521         76         0.49         0.139728         27.13         2.503         15.09         4.033         4.521         2.771           13.48         13.45         523         76         0.49         0.138516         21.17         2.528         1.507         4.038         4.521         2.771           13.63         13.55         528         76         0.49         0.138541         2.120         2.533         1.504         4.048         4.531         2.773           13.70         13.47         528         77         0.50         0.139037         2.124         2.539         1.504         4.045         4.541         2.773           13.94         13.05         527         77         0.50         0.139037         2.124         2.539         1.501         4.040         4.539         2.771           13.40         13.05         529         77         0.50         0.139046         2.126         2.535         1.501         4.043         4.539         2.761           14.41         4.407         530         77         0.50         0.140435         2.132         1.494         4.032         4.521         2.761           14	13.33	13.29	521	76	0.49	0.132940	21.11	2.516	1.509	4.025	4.516	2.767
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13.40	13.37	523	76	0.49	0.133728	21.13	2.523	1.509	4.033	4.523	2.771
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13.48	13.45	523	76	0.49	0.134516	21.15	2.521	1.507	4.028	4.521	2.767
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	13.56	13.52	525	76	0.49	0.135234	21.17	2.528	1.507	4.035	4.528	2.771
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13.63	13.59	526	76	0.49	0.135943	21.18	2.531	1.507	4.038	4,531	2.772
13.78         13.74         5.29         77         0.50         0.138439         21.22         2.541         1.504         4.043         4.519         2.773           13.86         13.80         5.29         77         0.50         0.138025         21.24         2.539         1.501         4.004         4.539         2.773           13.94         13.89         5.30         77         0.50         0.138217         2.28         2.537         1.501         4.004         4.539         2.771           14.10         14.07         5.30         77         0.50         0.141460         2.386         1.501         4.008         4.534         2.795           14.24         14.25         5.90         77         0.50         0.141405         2.132         2.534         1.496         4.002         4.527         2.753           14.34         14.35         5.90         77         0.50         0.144824         2.138         2.527         1.496         4.002         4.527         2.759           14.50         14.46         5.90         77         0.51         0.148824         2.138         2.507         1.496         4.002         4.528         2.753	13.70	13.67	528	77	0.50	0.136661	21.20	2.539	1.504	4.043	4.539	2.773
13.86         13.82         5.29         77         0.50         0.138027         21.24         2.587         1.504         4.048         4.539         2.773           13.94         13.96         530         77         0.50         0.139026         21.26         2.537         1.501         4.008         4.537         2.799           14.01         14.07         530         77         0.50         0.149048         21.32         2.536         1.501         4.038         4.535         2.773           14.18         14.15         530         77         0.50         0.144048         2.131         2.531         1.408         4.002         4.527         2.762           14.42         14.43         530         77         0.50         0.148248         2.134         2.527         1.408         4.002         4.527         2.758           14.42         14.48         529         78         0.51         0.146243         2.140         2.515         1.406         4.000         4.512         2.758           14.58         14.46         529         78         0.51         0.147957         2.146         2.508         1.400         3.994         4.504         2.741	13.78	13.74	529	77	0.50	0.137449	21.22	2.541	1.504	4.045	4.541	2.775
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	13.86	13.82	529	77	0.50	0.138237	21.24	2.539	1.504	4.043	4.539	2.773
14.01         13.98         5.30         77         0.50         0.139814         21.28         2.536         1.501         4.008         4.539         2.771           14.10         14.07         530         77         0.50         0.140672         21.30         2536         1.501         4.038         4.534         2.799           14.18         530         77         0.50         0.144046         21.32         2.527         1.488         4.032         4.534         2.782           14.34         14.30         529         77         0.50         0.144036         2.134         2.527         1.486         4.002         4.527         2.783           14.42         14.38         530         77         0.50         0.144623         2.140         2.525         1.486         4.002         4.527         2.783           14.45         14.45         528         78         0.51         0.144619         2.144         2.518         1.481         4.003         4.511         2.743           14.80         14.47         528         78         0.51         0.144619         2.144         2.501         1.400         3.994         4.504         2.742           14	13.94	13.90	529	$\pi$	0.50	0.139026	21.26	2.537	1.501	4.038	4.537	2.769
14.10         14.07         530         77         0.50         0.140872         2.130         2.534         1.408         4.638         4.534         2.769           14.18         14.22         526         77         0.50         0.141248         2.132         2.534         1.408         4.035         4.527         2.762           14.34         14.30         530         77         0.50         0.143262         2.138         2.527         1.466         4.002         4.527         2.758           14.42         14.38         530         77         0.50         0.148212         2.138         2.527         1.466         4.000         4.525         2.758           14.45         14.45         520         78         0.51         0.146919         2.144         2.511         1.493         4.000         4.511         2.743           14.73         14.70         528         78         0.51         0.146957         2.146         2.506         1.400         3.996         4.506         2.743           14.80         14.77         528         78         0.51         0.146957         2.146         2.501         1.400         3.996         4.506         2.742	14.01	13.98	530	77	0.50	0.139814	21.28	2.539	1.501	4.040	4,539	2.771
14.18         14.15         530         77         0.50         0.14246         21.32         2.534         1.488         4.032         4.534         2.785           14.34         14.30         529         77         0.50         0.142248         21.34         2.527         1.486         4.003         4.527         2.785           14.42         14.38         530         77         0.50         0.148824         21.38         2.527         1.466         4.001         4.525         2.758           14.50         14.46         530         77         0.50         0.148824         21.38         2.527         1.466         4.001         4.525         2.758           14.55         14.65         1.62         78         0.51         0.146197         21.44         2.511         1.463         4.001         4.518         1.752           14.65         1.64         528         78         0.51         0.14695         21.46         2.506         1.400         3.994         4.506         2.743           14.88         14.84         528         78         0.51         0.14695         2.141         2.401         3.994         4.504         2.742           14.95	14.10	14.07	53	Π	0.50	0.140672	21.30	2.536	1.501	4.038	4.536	2.769
14.26         14.28         529         77         0.50         0.142248         21.34         25.27         1.488         4.005         4.527         2.782           14.34         14.36         529         77         0.50         0.148824         21.38         2.525         1.486         4.003         4.527         2.759           14.45         14.46         530         77         0.50         0.144823         21.40         2.525         1.466         4.003         4.527         2.758           14.45         14.46         530         77         0.50         0.144819         21.44         2.518         1.463         4.000         4.525         2.758           14.45         14.46         528         78         0.51         0.146997         21.44         2.506         1.400         3.998         4.508         2.743           14.88         14.84         528         78         0.51         0.146912         2.151         2.507         1.400         3.997         4.507         2.742           14.95         14.91         529         78         0.51         0.14895         2.151         2.507         1.401         3.997         4.507         2.742	14.18	14.15	530	77	0.50	0.141460	21.32	2.534	1.498	4.032	4.534	2.765
14.34         14.30         529         77         0.50         0.143024         21.38         2.525         1.496         4.000         4.525         2.758           14.42         14.48         530         77         0.50         0.148423         21.40         2.527         1.496         4.003         4.525         2.758           14.55         14.62         528         78         0.51         0.146431         21.42         2.511         1.493         4.003         4.518         2.752           14.65         14.62         528         78         0.51         0.146987         21.44         2.501         1.403         3.986         4.506         2.744           14.80         14.77         528         78         0.51         0.14987         2.148         2.506         1.490         3.994         4.504         2.742           14.81         14.84         528         78         0.51         0.149132         2.151         2.507         1.480         3.997         4.509         2.742           15.10         15.06         532         78         0.51         0.149850         2.157         1.487         4.004         4.512         2.742           15.	14.26	14.22	52	77	0.50	0.142248	21.34	2.527	1.498	4.025	4.527	2.762
14.42         14.88         530         77         0.50         0.148282         21.38         2.527         1.496         4.023         4.527         2.759           14.50         14.46         530         77         0.50         0.144623         21.40         2.525         1.496         4.020         4.525         2.758           14.65         14.62         528         78         0.51         0.146199         21.44         2.511         1.493         4.003         4.511         2.748           14.70         528         78         0.51         0.14499         21.44         2.511         1.493         4.903         4.504         2.743           14.88         14.84         528         78         0.51         0.14495         2.504         1.490         3.994         4.504         2.742           14.48         14.84         528         78         0.51         0.14912         2.51         1.490         3.997         4.507         2.742           14.45         14.84         530         78         0.51         0.14980         2.53         1.487         4.004         4.512         2.742           15.0         15.06         532         78	14.34	14.30	529	77	0.50	0.143036	21.36	2.525	1.496	4.020	4.525	2.758
14.50         14.46         530         77         0.50         0.144623         21.40         2.252         1.495         4.00         4.525         2.782           14.58         14.54         529         78         0.51         0.146119         21.44         2.511         1.493         4.000         4.511         2.748           14.73         14.70         528         78         0.51         0.146199         21.46         2.508         1.490         3.998         4.506         2.743           14.80         14.77         528         78         0.51         0.149414         2.141         2.506         1.490         3.994         4.506         2.743           14.80         14.91         529         78         0.51         0.149132         2.151         2.507         1.490         3.997         4.509         2.743           15.00         15.06         532         78         0.51         0.149132         2.151         2.507         1.480         4.003         4.504         2.742           15.01         15.06         532         78         0.52         0.151075         2.526         1.484         4.011         4.526         2.746           15.	14.42	14.38	530	77	0.50	0.143824	21.38	2.527	1.496	4.023	4.527	2.759
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	14.50	14.46	530	77	0.50	0.144623	21.40	2.525	1.496	4.020	4.525	2.758
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	14.58	14.54	52	78	0.51	0.145411	21.42	2.518	1.493	4.010	4.518	2.752
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	14.65	14.62	528	78	0.51	0.146199	21.44	2.511	1.493	4.003	4.511	2.748
14.80         14.77         528         78         0.51         0.148414         21.48         2.506         1.490         3.996         4.506         2.743           14.88         14.84         528         78         0.51         0.148414         21.69         2.504         1.490         3.994         4.504         2.743           14.85         14.49         530         78         0.51         0.149850         21.53         2.509         1.487         3.997         4.509         2.742           15.10         15.06         532         78         0.51         0.15033         21.57         2.517         1.487         4.004         4.517         2.745           15.17         15.14         534         79         0.52         0.15275         2.526         1.484         4.001         4.526         2.748           15.31         15.28         536         79         0.52         0.15272         2.526         1.484         4.013         4.526         2.749           15.39         15.36         538         79         0.52         0.15273         21.64         2.531         1.482         4.012         4.536         2.750           15.47         15.43<	14.73	14.70	528	78	0.51	0.146987	21.46	2.508	1.490	3.998	4.508	2.744
14.88         14.84         528         78         0.51         0.144414         21.49         2.504         1.490         3.994         4.504         2.742           14.95         14.91         529         78         0.51         0.149132         21.51         2.507         1.490         3.997         4.507         2.743           15.00         15.06         532         78         0.51         0.150639         21.53         2.507         1.487         4.004         4.517         2.742           15.10         15.06         532         78         0.52         0.152075         21.57         2.524         1.484         4.008         4.524         2.745           15.24         15.25         536         79         0.52         0.152075         21.59         2.566         1.484         4.013         4.529         2.749           15.39         15.36         538         79         0.52         0.15272         21.62         2.556         1.482         4.018         4.529         2.743           15.47         15.43         540         79         0.52         0.15508         1.482         4.018         4.536         2.750           15.41         554	14.80	14.77	528	78	0.51	0.147695	21.48	2.506	1.490	3.996	4.506	2.743
14.95         14.91         529         78         0.51         0.149132         21.51         2.507         1.480         3.997         4.507         2.743           15.02         14.99         530         78         0.511         0.149880         21.53         2.509         1.487         3.997         4.509         2.742           15.17         15.14         534         79         0.52         0.151357         21.57         2.524         1.484         4.008         4.524         2.746           15.17         15.18         536         79         0.52         0.152764         21.60         2.529         1.484         4.011         4.526         2.749           15.39         15.36         538         79         0.52         0.152724         21.60         2.529         1.484         4.013         4.529         2.749           15.31         15.45         538         79         0.52         0.155402         21.64         2.543         1.482         4.013         4.534         2.750           15.47         543         79         0.52         0.155437         21.67         2556         1.482         4.033         4.551         2.757           15	14.88	14.84	528	78	0.51	0.148414	21.49	2.504	1.490	3.994	4.504	2.742
15.02         14.99         530         78         0.51         0.148850         21.53         2.509         1.487         4.097         4.509         2.742           15.10         15.06         532         78         0.51         0.150639         21.55         2.517         1.487         4.004         4.517         2.745           15.17         15.14         534         79         0.52         0.151357         2.526         1.484         4.011         4.526         2.749           15.31         15.28         536         79         0.52         0.152774         21.60         2.529         1.484         4.018         4.529         2.749           15.39         15.36         538         79         0.52         0.15209         21.64         2.543         1.482         4.018         4.536         2.750           15.47         15.43         540         79         0.52         0.155437         21.67         2.554         1.479         4.033         4.554         2.757           15.58         15.54         544         79         0.52         0.15781         2.167         2.576         1.479         4.032         4.554         2.769           15.	14.95	14.91	529	78	0.51	0.149132	21.51	2.507	1.490	3.997	4.507	2.743
15.1015.06532780.510.15063921.552.5171.4874.0044.5172.74515.1715.14534790.520.1530721.592.5261.4844.0014.5242.74615.2415.21535790.520.15207521.592.5261.4844.0134.5292.74915.3915.36538790.520.1537221.622.5361.4824.0184.5362.75015.4715.43540790.520.1550821.642.5431.4824.0324.5512.75315.5415.54542790.520.1550821.662.5511.4824.0334.5542.75715.5815.54543790.520.15543721.652.5561.4824.0374.5562.75915.6415.64544790.520.1574321.702.5561.4824.0374.5562.75915.7615.72546790.520.1574321.742.5701.4794.0424.5632.76015.8315.80548790.520.1574421.762.5771.4764.0534.5772.76415.9115.87550790.520.157442.1762.5771.4764.0534.5772.76415.9315.94550790.520.1594742.1782.5771.476	15.02	14.99	530	78	0.51	0.149850	21.53	2.509	1.487	3.997	4.509	2.742
15.1715.1453479 $0.52$ $0.151357$ $21.57$ $2.524$ $1.484$ $4.008$ $4.524$ $2.746$ 15.2415.2153579 $0.52$ $0.152075$ $21.59$ $2.526$ $1.484$ $4.011$ $4.526$ $2.748$ 15.3115.2853679 $0.52$ $0.153572$ $21.60$ $2.529$ $1.484$ $4.013$ $4.526$ $2.749$ 15.3915.3653879 $0.52$ $0.153572$ $21.64$ $2.535$ $1.482$ $4.018$ $4.536$ $2.750$ 15.4715.4354079 $0.52$ $0.155008$ $21.66$ $2.551$ $1.482$ $4.032$ $4.551$ $2.757$ 15.5815.5454379 $0.52$ $0.155008$ $21.66$ $2.551$ $1.482$ $4.033$ $4.554$ $2.759$ 15.7615.7254679 $0.52$ $0.157233$ $21.72$ $2.565$ $1.479$ $4.049$ $4.570$ $2.764$ 15.8115.8454879 $0.52$ $0.157233$ $21.72$ $2.565$ $1.479$ $4.049$ $4.570$ $2.764$ 15.8315.8054879 $0.52$ $0.157951$ $21.74$ $2.577$ $1.476$ $4.053$ $4.577$ $2.764$ 15.9115.8755079 $0.52$ $0.15946$ $21.76$ $2.577$ $1.476$ $4.051$ $4.575$ $2.763$ 16.0616.0255179 $0.52$ $0.15946$ $21.80$ $2.577$ $1.476$ <t< td=""><td>15.10</td><td>15.05</td><td>532</td><td>78</td><td>0.51</td><td>0.150639</td><td>21.55</td><td>2.517</td><td>1.487</td><td>4.004</td><td>4.517</td><td>2.745</td></t<>	15.10	15.05	532	78	0.51	0.150639	21.55	2.517	1.487	4.004	4.517	2.745
15.2415.21535790.520.15207521.592.5261.4844.0114.5262.74815.3115.28536790.520.15278421.602.5291.4844.0134.5292.74915.3915.36538790.520.15357221.622.5361.4824.0184.5362.75015.4715.54540790.520.15500821.662.5511.4824.0324.5432.75315.5415.54543790.520.15500821.662.5511.4824.0324.5542.75615.5815.54543790.520.15843721.672.5561.4824.0374.5562.75915.7615.72546790.520.15843721.722.5631.4794.0424.5632.76015.8115.80548790.520.15874021.762.5701.4794.0424.5632.76415.8115.80548790.520.15874021.762.5771.4764.0514.5772.76415.9115.87550790.520.15874021.762.5771.4764.0514.5772.76415.9815.94550790.520.15874021.762.5771.4764.0514.5772.76415.9815.94550790.520.16023621.802.5771.476<	15.17	15.14	534	79	0.52	0.151357	21.57	2.524	1.484	4.008	4.524	2.746
15.31         15.28         536         79         0.52         0.152784         21.60         2.529         1.484         4.013         4.529         2.749           15.39         15.36         538         79         0.52         0.153572         21.62         2.536         1.482         4.018         4.536         2.750           15.47         15.43         540         79         0.52         0.155008         21.64         2.543         1.482         4.032         4.543         2.753           15.54         15.54         543         79         0.52         0.15508         21.67         2.554         1.479         4.033         4.554         2.759           15.68         15.64         544         79         0.52         0.157233         21.72         2.563         1.479         4.042         4.563         2.760           15.81         15.80         548         79         0.52         0.157951         2.771         1.476         4.063         4.577         2.764           15.81         15.80         548         79         0.52         0.158740         2.172         2.575         1.476         4.051         4.577         2.764           15.	15.24	15.21	535	79	0.52	0.152075	21.59	2.526	1.484	4.011	4.526	2.748
15.3915.3653879 $0.52$ $0.153572$ $21.62$ $2.536$ $1.482$ $4.018$ $4.536$ $2.750$ 15.4715.4354079 $0.52$ $0.154090$ $21.64$ $2.543$ $1.482$ $4.025$ $4.543$ $2.753$ 15.5415.5054279 $0.52$ $0.155008$ $21.66$ $2.551$ $1.482$ $4.032$ $4.551$ $2.757$ 15.5815.5454379 $0.52$ $0.155437$ $21.67$ $2.556$ $1.482$ $4.037$ $4.556$ $2.759$ 15.7615.7254679 $0.52$ $0.157233$ $21.72$ $2.563$ $1.479$ $4.042$ $4.563$ $2.760$ 15.8315.8054879 $0.52$ $0.157233$ $21.72$ $2.563$ $1.479$ $4.042$ $4.563$ $2.760$ 15.8315.8054879 $0.52$ $0.157233$ $21.72$ $2.563$ $1.479$ $4.042$ $4.563$ $2.760$ 15.8315.8054879 $0.52$ $0.157951$ $21.74$ $2.577$ $1.476$ $4.053$ $4.577$ $2.764$ 15.9115.8779 $0.52$ $0.159448$ $21.78$ $2.577$ $1.476$ $4.053$ $4.577$ $2.764$ 15.9815.9455079 $0.52$ $0.160236$ $21.80$ $2.577$ $1.476$ $4.063$ $4.577$ $2.765$ 16.1316.1055379 $0.52$ $0.160254$ $21.81$ $2.584$ $1.473$ $4.060$ <	15.31	15.28	536	79	0.52	0.152784	21.60	2.529	1.484	4.013	4.529	2.749
15.47 $15.43$ $540$ $79$ $0.52$ $0.152/90$ $21.64$ $2.543$ $1.482$ $4.025$ $4.543$ $2.753$ $15.54$ $15.50$ $542$ $79$ $0.52$ $0.15508$ $21.66$ $2.551$ $1.482$ $4.032$ $4.551$ $2.757$ $15.58$ $15.64$ $543$ $79$ $0.52$ $0.158437$ $21.67$ $2.554$ $1.479$ $4.033$ $4.554$ $2.756$ $15.68$ $15.64$ $544$ $79$ $0.52$ $0.157433$ $21.70$ $2.563$ $1.479$ $4.049$ $4.563$ $2.759$ $15.76$ $15.72$ $546$ $79$ $0.52$ $0.157233$ $21.72$ $2.563$ $1.479$ $4.049$ $4.570$ $2.764$ $15.91$ $15.87$ $550$ $79$ $0.52$ $0.158740$ $21.76$ $2.577$ $1.476$ $4.053$ $4.577$ $2.764$ $15.98$ $15.94$ $550$ $79$ $0.52$ $0.158740$ $21.76$ $2.577$ $1.476$ $4.053$ $4.577$ $2.764$ $15.98$ $15.94$ $550$ $79$ $0.52$ $0.158946$ $21.78$ $2.575$ $1.476$ $4.051$ $4.575$ $2.763$ $16.16$ $16.02$ $551$ $79$ $0.52$ $0.169954$ $21.80$ $2.577$ $1.476$ $4.060$ $4.584$ $2.766$ $16.29$ $16.25$ $555$ $80$ $0.53$ $0.162954$ $21.80$ $2.584$ $1.476$ $4.060$ $4.584$ $2.766$ $16.29$ $16.25$ $555$ $80$	15.39	15.36	538	79	0.52	0.153572	21.62	2.536	1.482	4.018	4.536	2.750
1554 $1550$ $542$ $79$ $0.52$ $0.155008$ $21.66$ $2.551$ $1.482$ $4.032$ $4.551$ $2.757$ $15.58$ $15.54$ $543$ $79$ $0.52$ $0.158437$ $21.67$ $2.554$ $1.479$ $4.033$ $4.554$ $2.756$ $15.68$ $15.64$ $544$ $79$ $0.52$ $0.157433$ $21.70$ $2.556$ $1.482$ $4.037$ $4.556$ $2.759$ $15.76$ $15.72$ $546$ $79$ $0.52$ $0.157233$ $21.72$ $2.563$ $1.479$ $4.042$ $4.563$ $2.760$ $15.83$ $15.80$ $548$ $79$ $0.52$ $0.157951$ $21.74$ $2.577$ $1.476$ $4.063$ $4.577$ $2.764$ $15.91$ $15.87$ $550$ $79$ $0.52$ $0.158740$ $21.76$ $2.577$ $1.476$ $4.053$ $4.577$ $2.764$ $15.98$ $15.94$ $550$ $79$ $0.52$ $0.159448$ $21.78$ $2.577$ $1.476$ $4.053$ $4.577$ $2.763$ $16.06$ $16.02$ $551$ $79$ $0.52$ $0.160236$ $21.80$ $2.577$ $1.476$ $4.060$ $4.584$ $2.766$ $16.21$ $16.17$ $554$ $80$ $0.53$ $0.160236$ $21.80$ $2.577$ $1.476$ $4.060$ $4.584$ $2.768$ $16.21$ $16.17$ $554$ $80$ $0.53$ $0.160236$ $21.80$ $2.577$ $1.476$ $4.060$ $4.584$ $2.768$ $16.21$ $16.17$ $555$ $80$ <	15.47	15.43	540	79	0.52	0.154290	21.64	2.543	1.482	4.025	4.543	2.753
15.58 $15.54$ $543$ $79$ $0.52$ $0.158437$ $21.67$ $2.554$ $1.479$ $4.033$ $4.554$ $2.756$ $15.68$ $15.64$ $544$ $79$ $0.52$ $0.156445$ $21.70$ $2.556$ $1.482$ $4.037$ $4.556$ $2.759$ $15.76$ $15.72$ $546$ $79$ $0.52$ $0.157233$ $21.72$ $2.563$ $1.479$ $4.042$ $4.563$ $2.760$ $15.83$ $15.80$ $548$ $79$ $0.52$ $0.157233$ $21.74$ $2.570$ $1.479$ $4.042$ $4.570$ $2.764$ $15.91$ $15.87$ $550$ $79$ $0.52$ $0.159440$ $21.76$ $2.577$ $1.476$ $4.053$ $4.577$ $2.764$ $15.98$ $15.94$ $550$ $79$ $0.52$ $0.159448$ $21.78$ $2.575$ $1.476$ $4.051$ $4.575$ $2.763$ $16.06$ $16.02$ $551$ $79$ $0.52$ $0.160236$ $21.80$ $2.577$ $1.476$ $4.053$ $4.577$ $2.765$ $16.13$ $16.10$ $553$ $79$ $0.52$ $0.160236$ $21.80$ $2.577$ $1.476$ $4.060$ $4.584$ $2.768$ $16.21$ $16.17$ $554$ $80$ $0.53$ $0.161743$ $21.84$ $2.586$ $1.473$ $4.060$ $4.584$ $2.768$ $16.23$ $16.25$ $555$ $80$ $0.53$ $0.164331$ $21.86$ $2.589$ $1.473$ $4.062$ $4.589$ $2.765$ $16.47$ $16.33$ $558$ $80$	15.54	15.50	542	79	0.52	0.155008	21.66	2.551	1.482	4.032	4.551	2,757
15.68         15.64         544         79         0.52         0.156445         21.70         2.556         1.482         4.037         4.556         2.759           15.76         15.72         546         79         0.52         0.15733         21.72         2.563         1.479         4.042         4.563         2.760           15.83         15.80         548         79         0.52         0.157951         21.74         2.570         1.479         4.049         4.570         2.764           15.91         15.87         550         79         0.52         0.158740         21.76         2.577         1.476         4.051         4.577         2.763           16.06         16.02         551         79         0.52         0.160246         21.80         2.577         1.476         4.060         4.584         2.768           16.13         16.10         553         79         0.52         0.160954         21.81         2.584         1.476         4.060         4.584         2.768           16.21         16.17         554         80         0.53         0.161714         21.84         2.586         1.473         4.062         4.589         2.768	15.58	15.54	543	79	0.52	0.155437	21.67	2.554	1.479	4.033	4.554	2.756
15.76         15.72         546         79         0.52         0.157233         21.72         2.563         1.479         4.042         4.563         2.760           15.83         15.80         548         79         0.52         0.157951         21.74         2.570         1.479         4.049         4.570         2.764           15.91         15.87         550         79         0.52         0.158740         21.76         2.577         1.476         4.053         4.577         2.764           15.98         15.94         550         79         0.52         0.159448         21.78         2.575         1.476         4.051         4.575         2.763           16.06         16.02         551         79         0.52         0.160236         21.80         2.577         1.476         4.060         4.584         2.766           16.13         16.10         553         79         0.52         0.160954         21.81         2.586         1.473         4.060         4.586         2.766           16.21         16.17         554         80         0.53         0.162531         21.86         2.589         1.473         4.062         4.589         2.766	15.68	15.64	544	79	0.52	0.156445	21.70	2.556	1.482	4.037	4.556	2.759
15.83         15.80         548         79         0.52         0.157951         21.74         2.570         1.479         4.049         4.570         2.764           15.91         15.87         550         79         0.52         0.158740         21.76         2.577         1.476         4.053         4.577         2.764           15.98         15.94         550         79         0.52         0.159448         21.78         2.575         1.476         4.051         4.575         2.763           16.06         16.02         551         79         0.52         0.160236         21.80         2.577         1.476         4.053         4.577         2.765           16.13         16.10         553         79         0.52         0.160954         21.81         2.584         1.476         4.060         4.584         2.768           16.21         16.17         554         80         0.53         0.162531         21.86         2.586         1.473         4.062         4.589         2.768           16.37         16.33         555         80         0.53         0.163319         21.88         2.586         1.470         4.053         4.597         2.766	15.76	15.72	546	79	0.52	0.157233	21.72	2.563	1.479	4.042	4.563	2.760
15.91         15.87         550         79         0.52         0.158740         21.76         2.577         1.476         4.053         4.577         2.764           15.98         15.94         550         79         0.52         0.159448         21.78         2.575         1.476         4.051         4.575         2.763           16.06         16.02         551         79         0.52         0.160236         21.80         2.577         1.476         4.053         4.577         2.765           16.13         16.10         553         79         0.52         0.160954         21.81         2.584         1.476         4.060         4.584         2.768           16.21         16.17         554         80         0.53         0.161743         21.84         2.586         1.473         4.062         4.589         2.768           16.37         16.33         555         80         0.53         0.163319         21.88         2.586         1.470         4.057         4.586         2.764           16.44         16.40         556         80         0.53         0.164327         21.90         2.597         1.468         4.065         4.597         2.765	15.83	15.80	548	79	0.52	0.157951	21.74	2.570	1.479	4.049	4.570	2.764
15.98 $15.94$ $550$ $79$ $0.52$ $0.159448$ $21.78$ $2.575$ $1.476$ $4.051$ $4.575$ $2.763$ $16.06$ $16.02$ $551$ $79$ $0.52$ $0.160236$ $21.80$ $2.577$ $1.476$ $4.053$ $4.577$ $2.765$ $16.13$ $16.10$ $553$ $79$ $0.52$ $0.160954$ $21.81$ $2.584$ $1.476$ $4.060$ $4.584$ $2.768$ $16.21$ $16.17$ $554$ $80$ $0.53$ $0.161743$ $21.84$ $2.586$ $1.473$ $4.060$ $4.586$ $2.766$ $16.29$ $16.25$ $555$ $80$ $0.53$ $0.162531$ $21.86$ $2.589$ $1.473$ $4.062$ $4.589$ $2.768$ $16.37$ $16.33$ $555$ $80$ $0.53$ $0.163319$ $21.88$ $2.586$ $1.470$ $4.057$ $4.586$ $2.764$ $16.44$ $16.40$ $556$ $80$ $0.53$ $0.164327$ $21.90$ $2.589$ $1.470$ $4.059$ $4.589$ $2.765$ $16.67$ $16.63$ $558$ $80$ $0.53$ $0.164327$ $21.90$ $2.597$ $1.468$ $4.065$ $4.597$ $2.766$ $16.67$ $16.63$ $559$ $80$ $0.53$ $0.165614$ $21.94$ $2.593$ $1.470$ $4.063$ $4.593$ $2.767$ $16.67$ $16.63$ $559$ $80$ $0.53$ $0.167050$ $21.97$ $2.598$ $1.470$ $4.068$ $4.598$ $2.769$ $16.82$ $16.78$ $561$ $80$	15.91	15.87	550	79	0.52	0.158740	21.76	2.577	1.476	4.053	4.577	2.764
16.06         16.02         551         79         0.52         0.180236         21.80         2.577         1.476         4.053         4.577         2.765           16.13         16.10         553         79         0.52         0.160954         21.81         2.584         1.476         4.060         4.584         2.768           16.21         16.17         554         80         0.53         0.161743         21.84         2.586         1.473         4.060         4.586         2.768           16.29         16.25         555         80         0.53         0.162531         21.86         2.589         1.473         4.062         4.589         2.768           16.37         16.33         555         80         0.53         0.163319         21.88         2.586         1.470         4.057         4.586         2.764           16.44         16.40         556         80         0.53         0.164327         21.90         2.597         1.468         4.065         4.597         2.765           16.60         16.56         558         80         0.53         0.166332         21.90         2.597         1.468         4.063         4.593         2.767	15.98	15.94	550	79	0.52	0.159448	21.78	2.575	1.476	4.051	4.575	2.763
16.13         16.10         553         79         0.52         0.160954         21.81         2.584         1.476         4.060         4.584         2.768           16.21         16.17         554         80         0.53         0.161743         21.84         2.586         1.473         4.060         4.586         2.766           16.29         16.25         555         80         0.53         0.162531         21.86         2.589         1.473         4.062         4.589         2.768           16.37         16.33         555         80         0.53         0.163319         21.88         2.586         1.470         4.057         4.586         2.764           16.44         16.40         556         80         0.53         0.164037         21.90         2.589         1.470         4.059         4.589         2.765           16.47         16.43         558         80         0.53         0.164327         21.90         2.597         1.468         4.065         4.597         2.766           16.60         16.56         558         80         0.53         0.166332         21.94         2.593         1.470         4.063         4.593         2.767	16.06	16.02	551	79	0.52	0.160236	21.80	2.577	1.476	4.053	4.577	2.765
16.21         16.17         554         80         0.53         0.161743         21.84         2.585         1.473         4.060         4.585         2.765           16.29         16.25         555         80         0.53         0.162531         21.86         2.589         1.473         4.062         4.589         2.768           16.37         16.33         555         80         0.53         0.163319         21.88         2.586         1.470         4.057         4.586         2.764           16.44         16.40         556         80         0.53         0.164037         21.90         2.589         1.470         4.059         4.589         2.765           16.47         16.43         558         80         0.53         0.164327         21.90         2.597         1.468         4.065         4.597         2.766           16.60         16.56         558         80         0.53         0.165614         21.94         2.593         1.470         4.063         4.593         2.767           16.67         16.63         559         80         0.53         0.166332         21.97         2.598         1.470         4.068         4.593         2.765	16.13	16.10	553	79	0.52	0.160954	21.81	2.584	1.476	4.060	4.584	2.768
16.29         16.25         555         80         0.53         0.162531         21.86         2.589         1.473         4.062         4.589         2.768           16.37         16.33         555         80         0.53         0.163319         21.88         2.586         1.470         4.057         4.586         2.764           16.44         16.40         556         80         0.53         0.164037         21.90         2.589         1.470         4.059         4.589         2.765           16.47         16.43         558         80         0.53         0.164327         21.90         2.597         1.468         4.065         4.597         2.766           16.60         16.56         558         80         0.53         0.164327         21.90         2.597         1.468         4.063         4.593         2.767           16.67         16.63         559         80         0.53         0.166332         21.96         2.595         1.468         4.063         4.595         2.765           16.74         16.71         560         80         0.53         0.167050         21.97         2.598         1.470         4.068         4.500         2.768	16.21	16.17	554	80	0.53	0.161743	21.84	2.585	1.473	4.060	4.585	2.766
16.37         16.33         555         80         0.53         0.163319         21.88         2.586         1.470         4.057         4.586         2.764           16.44         16.40         556         80         0.53         0.164037         21.90         2.589         1.470         4.057         4.586         2.765           16.47         16.43         558         80         0.53         0.164327         21.90         2.597         1.468         4.065         4.597         2.766           16.60         16.56         558         80         0.53         0.165614         21.94         2.593         1.470         4.063         4.593         2.767           16.67         16.63         559         80         0.53         0.166332         21.96         2.595         1.468         4.063         4.593         2.767           16.67         16.63         559         80         0.53         0.166332         21.97         2.598         1.470         4.068         4.593         2.765           16.74         16.71         560         80         0.53         0.16750         21.97         2.598         1.470         4.068         4.500         2.768	16.29	16.25	202	80	0.53	0.162531	21.86	2.589	1.473	4.062	4.589	Z.768
16.44         16.40         556         80         0.53         0.154037         21.30         2.589         1.470         4.059         4.389         2.765           16.47         16.43         558         80         0.53         0.164327         21.90         2.597         1.468         4.065         4.597         2.766           16.60         16.56         558         80         0.53         0.164327         21.90         2.597         1.468         4.063         4.593         2.767           16.67         16.53         559         80         0.53         0.166332         21.96         2.595         1.468         4.063         4.593         2.767           16.67         16.53         559         80         0.53         0.167050         21.97         2.598         1.470         4.068         4.598         2.769           16.74         16.71         560         80         0.53         0.167050         21.97         2.598         1.470         4.068         4.598         2.769           16.82         16.78         561         80         0.53         0.167769         21.99         2.600         1.468         4.068         4.600         2.768	16.37	16.33	505	80	0.53	0.163319	21.88	2.585	1.470	4.057	4.585	2.764
16.47         16.43         558         80         0.53         0.164327         21.30         2.597         1.468         4.065         4.597         2.766           16.60         16.56         558         80         0.53         0.165614         21.94         2.593         1.470         4.063         4.593         2.767           16.67         16.53         559         80         0.53         0.166332         21.96         2.595         1.468         4.063         4.593         2.767           16.67         16.53         559         80         0.53         0.166332         21.97         2.595         1.468         4.063         4.595         2.765           16.74         16.71         560         80         0.53         0.167050         21.97         2.598         1.470         4.068         4.598         2.769           16.82         16.78         561         80         0.53         0.167769         21.99         2.600         1.468         4.068         4.600         2.768           16.90         16.86         562         80         0.53         0.168557         22.01         2.602         1.468         4.060         2.768           16	15.44	16.40	200	80	0.53	0.164037	21.90	2.589	1.470	4.059	4.589	Z.765
16.60         16.56         558         80         0.53         0.165514         21.34         2.593         1.470         4.063         4.593         2.767           16.67         16.63         559         80         0.53         0.165632         21.96         2.595         1.468         4.063         4.593         2.765           16.74         16.71         560         80         0.53         0.167050         21.97         2.598         1.470         4.068         4.595         2.765           16.82         16.78         561         80         0.53         0.167769         21.99         2.600         1.468         4.068         4.500         2.768           16.90         16.85         562         80         0.53         0.168557         22.01         2.602         1.468         4.068         4.600         2.768           16.97         16.93         562         80         0.53         0.169345         22.04         2.600         1.468         4.068         4.600         2.768           17.05         17.01         563         80         0.53         0.170053         22.05         2.602         1.468         4.060         2.769           17	16.47	15.43	558	80	0.53	0.164327	21.90	2.597	1.468	4.065	4.597	Z.768
10.07         10.03         539         60         0.53         0.166532         21.96         2.595         1.468         4.065         4.595         2.765           16.74         16.71         560         80         0.53         0.167050         21.97         2.598         1.470         4.068         4.598         2.769           16.82         16.78         561         80         0.53         0.167769         21.99         2.600         1.468         4.068         4.600         2.768           16.90         16.85         562         80         0.53         0.168557         22.01         2.602         1.468         4.068         4.600         2.768           16.97         16.93         562         80         0.53         0.169345         22.04         2.600         1.468         4.068         4.600         2.768           17.05         17.01         563         80         0.53         0.170053         22.05         2.602         1.468         4.060         2.769           17.12         17.08         563         81         0.54         0.170772         22.07         2.600         1.465         4.065         4.600         2.765           17	16.60	10.00	236	80	0.53	0.160014	21.34	4.393	1,470	4,053	9.333	2.757
16.74         16.71         560         60         0.53         0.167050         21.97         2.598         1.470         4.068         4.598         2.769           16.82         16.78         561         80         0.53         0.16769         21.99         2.600         1.468         4.068         4.600         2.768           16.90         16.86         562         80         0.53         0.168557         22.01         2.602         1.468         4.068         4.600         2.769           16.97         16.93         562         80         0.53         0.169345         22.04         2.600         1.468         4.068         4.600         2.769           16.97         16.93         562         80         0.53         0.169345         22.04         2.600         1.468         4.068         4.600         2.768           17.05         17.01         563         80         0.53         0.170053         22.05         2.602         1.468         4.060         2.769           17.12         17.08         563         81         0.54         0.170772         22.07         2.600         1.465         4.065         4.600         2.765           17.	10.07	40.03	239	00 00	0.53	0.100332	21.70	4.393	1,450	4,000	4,335	5.793
16.92         16.76         561         60         0.53         0.167769         21.79         2.800         1.468         4.068         4.600         2.768           16.90         16.86         562         80         0.53         0.168557         22.01         2.602         1.468         4.068         4.602         2.769           16.97         16.93         562         80         0.53         0.169345         22.04         2.600         1.468         4.068         4.600         2.768           17.05         17.01         563         80         0.53         0.170053         22.05         2.602         1.468         4.060         2.769           17.12         17.08         563         81         0.54         0.170772         22.07         2.600         1.465         4.065         4.600         2.769           17.12         17.08         563         81         0.54         0.170772         22.07         2.600         1.465         4.065         4.600         2.765           17.20         17.16         563         81         0.54         0.17560         22.09         2.508         1.465         4.062         4.598         2.764	16.74	16.71	560	80	0.53	0.167060	21.37	2.598	1.470	4.068	4,598	2.769
10.50         10.50         562         60         0.53         0.166557         22.01         2.602         1.466         4.070         4.602         2.765           16.97         16.93         562         80         0.53         0.169345         22.04         2.600         1.468         4.068         4.600         2.768           17.05         17.01         563         80         0.53         0.170053         22.05         2.602         1.468         4.060         2.769           17.12         17.08         563         81         0.54         0.170772         22.07         2.600         1.465         4.065         4.600         2.765           17.20         17.16         563         81         0.54         0.170772         22.07         2.600         1.465         4.065         4.600         2.765           17.20         17.16         563         81         0.54         0.170772         22.07         2.600         1.465         4.065         4.598         2.764	10.02	10.70	261	80	0.53	0.16/769	21.99	2,600	1,455	4,055	4,600	2.768
16.57         16.55         562         60         0.55         0.165345         22.04         2.800         1.468         4.066         4.600         2.768           17.05         17.01         563         80         0.53         0.170053         22.05         2.602         1.468         4.070         4.602         2.769           17.12         17.08         563         81         0.54         0.170772         22.07         2.600         1.465         4.065         4.600         2.765           17.20         17.16         563         81         0.54         0.170772         22.07         2.600         1.465         4.065         4.600         2.765           17.20         17.16         563         81         0.54         0.17076         22.08         1.465         4.062         4.598         2.764	10.00	10.00	202	00 00	0.53	0.100337	22.01	3,002	1,400	4,070	4,002	3 760
17.12         17.08         563         81         0.54         0.170772         22.07         2.600         1.465         4.065         4.600         2.765           17.12         17.08         563         81         0.54         0.170772         22.07         2.600         1.465         4.065         4.600         2.765           17.20         17.16         563         81         0.54         0.170560         22.09         2.598         1.465         4.062         4.598         2.764	17.05	17.05	204	80	0.53	0.100345	22.04	2,600	1,800	4,000	4,600	2.700
17 20 17 16 563 81 0.54 0.171560 22.09 2.508 1.465 4.062 4.508 2.765	17.10	\$7.00	503	94	0.00	0.120723	33.63	3,600	1,800	4.000	4 600	3,745
	17.20	17.16	563	81	0.54	0.171560	22.09	2 598	1,465	4,062	4,598	2.793

Defense date	Deform.	Celda	Presión	Incremento	Deferre	Åres	Esfuerzo	3'3	1.1	11	Esfuerzo
Letormacion (mm)	Unitaria	Cargo	de poros	de poros	Lieform.	Corregida	Dervindor	Efectivo	Hectivo	Total	Promedio
	8	N	(kPa)	(kgt/cm²)		(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm*)	(kgt/cm*)	(kgt/cm*)	(kg(/cm*)
17.27	17.23	564	81	0.54	0.172278	22.11	2.600	1.462	4.062	4.600	2.762
17.34	17.30	564	81	0.54	0.172996	22.13	2.598	1.462	4.060	4.598	2.761
17.36	17.32	565	81	0.54	0.173206	22.14	2.602	1.459	4.061	4.602	2.760
17.49	17.45	566	81	0.54	0.174503	22.17	2.602	1.462	4.064	4.602	2.763
17.56	17.52	566	81	0.54	0.175221	22.19	2.600	1.462	4.062	4.600	2.762
17.63	17.59	566	81	0.54	0.175929	22.21	2.598	1.462	4.060	4.598	2.761
17.71	17.67	567	81	0.54	0.176718	22.23	2.600	1.459	4.059	4.600	2.759
17.79	17.74	568	81	0.54	0.177436	22.25	2.602	1.459	4.061	4.602	2.760
17.86	17.82	569	81	0.54	0.178154	22.27	2.604	1.459	4.064	4,604	2.761
17.93	17.89	570	81	0.54	0.178873	22.29	2.607	1.459	4.066	4.607	2.763
18.01	17.97	571	81	0.54	0.179661	22.31	2.609	1.457	4.065	4,609	2.761
18.08	18.04	572	81	0.54	0.180379	22.33	2.611	1.457	4.068	4.611	2.762
18.16	18.12	574	81	0.54	0.181167	22.35	2.618	1.457	4.074	4.618	2.765
18.22	18.18	577	81	0.54	0.181806	22.37	2.629	1.457	4.086	4.629	2.771
18.25	18.20	578	82	0.55	0.182025	22.38	2.633	1.451	4.084	4.633	2.767
18.37	18.33	581	82	0.55	0.183312	22.41	2.643	1.454	4.096	4.643	2.775
18.45	18.41	582	82	0.55	0.184100	22.43	2.645	1.454	4.098	4.645	2.776
18.53	18.49	583	82	0.55	0.184889	22,46	2.647	1.454	4.100	4.647	2.777
18.60	18.56	584	82	0.55	0.185607	22,48	2.649	1.454	4.103	4.649	2.778
18.68	18.64	585	82	0.55	0.186395	22.50	2.651	1.451	4.102	4.651	2.776
18.76	18.71	585	82	0.55	0.187113	22.52	2.653	1.451	4.104	4.653	2.777
18.83	18.79	586	82	0.55	0.187902	22.54	2.650	1.451	4.101	4.650	2.776
18.91	18.87	586	82	0.55	0.188690	22,56	2.648	1.451	4.099	4.648	2,775
18.99	18.95	586	82	0.55	0.189478	22.58	2.645	1.451	4.096	4.645	2.774
19.08	19.03	585	82	0.55	0.190336	22.61	2,638	1.451	4.089	4.638	2,770
19.16	19.11	585	82	0.55	0.191124	22.63	2.635	1.451	4.086	4.635	2,769
19.24	19.19	585	82	0.55	0.191912	22.65	2,633	1.451	4.084	4.633	2,767
19.32	19.27	584	82	0.55	0.192700	22,67	2.626	1.448	4.074	4,626	2,761
19.39	19.35	584	82	0.55	0.193489	22,69	2.623	1.448	4.071	4.623	2,760
19.48	19.43	584	82	0.55	0.194347	22.72	2.620	1.448	4.069	4.620	2,758
19.56	19.51	5.84	82	0.55	0.195135	22.74	2.618	1 448	4.066	4.618	2 757
19.64	19.59	583	82	0.55	0.195923	22.76	2.611	1.448	4.059	4.611	2.754
19.72	19.67	5.92	82	0.55	0.196711	22.79	2.604	1.445	4.049	4.604	2 747
19.79	19.74	5.82	82	0.55	0 197429	22.81	2 601	1.445	4.047	4.601	2 746
19.86	19.81	581	82	0.55	0.198148	22.83	2.595	1.445	4.040	4,595	2,743
19.94	19.89	5.93	80	0.55	0 198936	22.85	2 596	1.445	4.042	4.596	2 744
20.01	19 97	583	80	0.55	0.199654	22.87	2,599	1.445	4.044	4,599	2.745
20.08	20.04	5.94	80	0.55	0.200372	22.89	2,601	1.445	4.046	4,601	2 746
20.00	20.11	504	83	0.55	0.200072	22.05	2,001	1.445	4.044	4 500	2.745
20.23	20.18	5.95	80	0.55	0.201799	22.93	2 601	1,445	4 046	4,601	2 746
30.20	30.30	500	90	0.00	0.303547	22.22	3,603	1,040	4.040	4,600	3 3 4 4
20.30	20.25	200	60 90	0.56	0.202517	22.33	2,605	1,440	4.047	4,003	2.799
20.30	30.00	207	60	0.20	0.000000	33.00	3,000	4,745	1,010	1,000	5,749
20.45	20.40	200	65	0.56	0.204024	23.00	2,007	1.443	4.049	4,507	2.740
20.32	20.97	202	60 90	0.56	0.209792	23.02	2,609	1,440	4,052	4,609	2.197
20.59	20.33	500	63	0.56	0.200461	23.04	2.611	1.493	9.053	9.011	2.790
20.57	20.62	591	83	0.56	0.206249	23.06	2.613	1.440	4.052	4.613	2.746
20.75	20.70	592	83	0.58	0.206967	23.08	2.615	1.440	4.054	4.615	2.147
20.82	20.78	594	83	0.56	0.207755	23.10	2.621	1.440	4.061	4.621	Z.750
20.90	20.85	595	83	0.56	0.208464	23.12	2.623	1.440	4.063	4.623	2.751
20.97	20.93	596	83	0.56	0.209252	23.15	2.625	1.440	4.065	4.625	2.352

## TRIAXIAL ESTATICO UU UU SATURADO

Fecha 11-mar.-2013

	Ariabilidad en el corto y largo plazo del estado de esfuerzos en laderas							
Proyecto:	conformadas por su	elos residueles		Localización:	Caldas, Antioquia			
Sondeo	1	Muestra:	1	Profundidad:	1,5 m			
Descripción	de la Muestra:	Limo de alta compresibilid	ad color rojizo con	motas amarillentas y zonas negras				

	Prir	m
Datos de la muestra		
Diámetro (cm)	4.843	
Altura (cm)	10.07	
Area (cm <sup>2</sup> )	18.42	
Volumen (cm <sup>8</sup> )	185.50	
Humedad (%)	47.3	
Peso del suelo humedo (g)	323.65	
Peso del suelo seco (g)	219.8	
Masa unitaria húmeda (g/cm <sup>3</sup> )	1.74	
Masa unitaria seca (g/cm <sup>2</sup> )	1.18	
Gravedad específica	2.74	
Relación de vacios	1.31	
Saturación (%)	98.65	

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Etapa de saturación				
Deformación por saturación (mm)	0			
Diámetro (cm)	4.843			
Altura (cm)	10.069			
Area (cm <sup>2</sup> )	18.423			
Volumen (cm <sup>8</sup> )	185.50			
Masa unitaria seca (g/cm <sup>8</sup> )	1.18			

er Incremento						
	Datos del Ensayo					
	Presión de poros inducida (kgt/cm <sup>2</sup> )	1.00				
	Presión de cámara (kgf/cm²)	1.50				
	Presión efectiva (kgt/cm <sup>2</sup> )	0.50				
	Parámetro B	1				
	Vel. de aplicación de carga (mm/min)	0.3				

Humedad Post falla					
Peso suelo humedo + tara (g)	405.40				
Peso suelo seco + tara	293.51				
Peso tara (g)	76.07				
Humedad Post falla	51.46				
Saturación (%)	107.42				

	Seg
Datos de la muestra	
Diámetro (cm)	4.84
Altura (cm)	10.006
Area (cm²)	18.379
Volumen (cm <sup>8</sup> )	183.90
Humedad (%)	49.2
Peso del suelo humedo (g)	326.55
Peso del suelo seco (g)	218.92
Masa unitaria húmeda (g/cm <sup>®</sup> )	1.78
Masa unitaria seca (g/cm <sup>8</sup> )	1.19
Gravedad específica	2.74
Relación de vacios	1.30
Saturación (%)	103.48

Etapa de saturación	
Deformación por saturación (mm)	0
Diámetro (cm)	4.8375

ne	remento				
	Datos del Ensayo				
	Presión de poros inducida (kgf/cm <sup>2</sup> )	1.0			
	Presión de cámara (kgf/cm²)	2.0			
	Presión efectiva (kgt/cm <sup>2</sup> )	1.0			
	Parámetro B	1			
	Vel. de aplicación de carga (mm/min)	0.1			

Humedad Post falla					
Peso suelo humedo + tara (g)	403.90				
Peso suelo seco + tara	294.82				
Peso tara (g)	71.60				
Humedad Post falla	48.87				
Saturación (%)	102.85				

Altura (cm)	10.01
Area (cm²)	18.379
Volumen (cm <sup>8</sup> )	183.90
Masa unitaria seca (g/cm <sup>®</sup> )	1.19

	Te	rcer in
Datos de la muestra		
Diámetro (cm)	4.772	
Altura (cm)	10.02	
Area (cm <sup>2</sup> )	17.89	
Volumen (cm <sup>8</sup> )	179.17	
Humedad (%)	55.3	
Peso del suelo humedo (g)	315.15	
Peso del suelo seco (g)	202.92	
Masa unitaria húmeda (g/cm <sup>8</sup> )	1.76	1
Masa unitaria seca (g/cm <sup>*</sup> )	1.13	
Gravedad específica	2.74	
Relación de vacios	1.42	
Saturación (%)	106.77	

Etapa de saturación	
Deformación por saturación (mm)	0.000
Diámetro (cm)	4.772
Altura (cm)	10.017
Area (cm²)	17.89
Volumen (cm <sup>®</sup> )	179.17
Masa unitaria seca (g/cm <sup>®</sup> )	1.13

er	iento	
	Datos del Ensayo	
	Presión de poros inducida (kgf/cm <sup>2</sup> )	1.0
	Presión de cámara (kgf/cm²)	3.0
	Presión efectiva (kgf/cm <sup>2</sup> )	2.0
	Parámetro B	0.94
	Vel. de aplicación de carga (mm/min)	0.3

Humedad Post falla									
Peso suelo humedo + tara (g)	395.20								
Peso suelo seco + tara	287.44								
Peso tara (g)	76.66								
Humodad Post falla	51.12								
Saturación (%)	98.70								

				Etap	a de falla pr	rimer incre	mento				
Deformació	Deform.	Celda	Presión	Incremento	Deform.	Åres	Esfuerzo	s'3	s'1	a <b>1</b>	Esfuerzo
n (mm)	Unitaria	Cargo	de poros	deporos	Unitaria	Corregida	Desviedor	Electivo	Efectivo	Total	Promedio
	5	N	(kPa)	(kgt/cm <sup>2</sup> )		(cm <sup>2</sup> )	(kg(/cm')	(kgt/cm*)	(kgt/cm <sup>*</sup> )	(kgi/cm*)	(kgi/cm*)
0.00	0.00	0	154	0.00	0.000000	18.42	0.000	0.500	0.500	0.500	0.500
0.07	0.07	34	154	0.00	0.000715	18.44	0.188	0.497	0.685	0.688	0.591
0.14	0.14	40	155	0.01	0.001420	18.45	0.221	0.494	0.715	0.721	0.605
0.22	0.21	45	155	0.01	0.002135	18.46	0.248	0.492	0.740	0.748	0.616
0.29	0.29	51	155	0.01	0.002920	18.48	0.281	0.492	0.773	0.781	0.632
0.37	0.36	56	155	0.01	0.003635	18.49	0.309	0.489	0.798	0.809	0.643
0.44	0.44	60	155	0.01	0.004350	18.50	0.331	0.489	0.819	0.831	0.654
0.52	0.51	65	155	0.01	0.005135	18.52	0.358	0.489	0.847	0.858	0.668
0.59	0.58	69	155	0.01	0.005850	18.53	0.380	0.489	0.868	0.880	0.679
0.66	0.66	74	155	0.01	0.006565	18.54	0.407	0.489	0.896	0.907	0.692
0.73	0.73	77	155	0.01	0.007270	18.56	0.423	0.489	0.912	0.923	0.700
0.80	0.80	81	155	0.01	0.007985	18.57	0.445	0.489	0.933	0.945	0.711
0.88	0.88	84	155	0.01	0.008770	18.59	0.461	0.489	0.950	0.961	0.719
0.96	0.96	88	155	0.01	0.009554	18.60	0.482	0.489	0.971	0.982	0.730
1.03	1.03	90	155	0.01	0.010269	18.61	0.493	0.489	0.982	0.993	0.735
1.11	1.11	94	155	0.01	0.011054	18.63	0.514	0.489	1.003	1.014	0.746

	Deform.	Celda	Presión	Incremento		Åres	Esfuerzo	a'3	- 61	11	Enfuerzo
Deformació	Unitaria	Carpo	de poros	deporos	Deform.	Correction	Develop	Dectivo	Dectivo	Total	Promedio
n (mm)		N	(1-0-1)	(hertform <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	Budlem <sup>3</sup>	(kat/cm <sup>2</sup> )	(kut/cm <sup>2</sup> )	(kuf/cm <sup>2</sup> )	(hallow?)
			feed	(vgi/sin )		gan j	fellolen k	1.00	1-10-1 - 1-1		(ellipsen )
1.19	1.18	96	155	0.01	0.011839	18.64	0.525	0.492	1.017	1.025	0.754
1.27	1.26	33	155	0.01	0.012623	18.66	0.541	0.492	1.033	1.041	0.762
1.34	1.33	101	155	0.01	0.013338	18.67	0.551	0.492	1.043	1.051	0.767
1.42	1.41	104	155	0.01	0.014053	18.69	0.567	0.494	1.062	1.067	0.778
1.49	1.48	106	155	0.01	0.014838	18.70	0.578	0.494	1.072	1.078	0.783
1.57	1.56	109	155	0.01	0.015553	18.71	0.594	0.494	1.088	1.094	0.791
1.65	1.64	110	154	0.00	0.016407	18.73	0.599	0.497	1.096	1.099	0.797
1.72	1.71	112	154	0.00	0.017122	18.74	0.609	0.500	1.109	1.109	0.805
1.80	1.79	113	154	0.00	0.017907	18.76	0.614	0.500	1.114	1.114	0.807
1.88	1.86	115	154	0.00	0.018622	18.77	0.624	0.508	1.127	1.124	0.815
1.96	1.95	117	154	0.00	0.019476	18.79	0.635	0.503	1.138	1.135	0.820
2.04	2.03	118	154	-0.01	0.020261	18.80	0.640	0.506	1.145	1.140	0.825
2.12	2.10	119	153	-0.01	0.021045	18.82	0.645	0.508	1.153	1.145	0.831
2.20	2.18	119	153	-0.01	0.021830	18.83	0.644	0.511	1.155	1.144	0.833
2.27	2.25	120	153	-0.01	0.022545	18.85	0.649	0.511	1.160	1.149	0.836
2.35	2.33	122	153	-0.01	0.023330	18.86	0.659	0.514	1.173	1,159	0.844
2.42	2.40	124	153	-0.01	0.024035	18.88	0.670	0.514	1.184	1.170	0.849
2.50	2.48	126	153	-0.01	0.024820	18.89	0.680	0.514	1 194	1 180	0.854
2.57	2.55	127	152	-0.02	0.025535	18.91	0.685	0.517	1 201	1 185	0.859
2.65	2.63	129	152	-0.02	0.026319	18.92	0.695	0.520	1 214	1 195	0.867
3.75	3.74	100	153	-0.02	0.002504	10.04	0.711	0.530	1 220	4.344	0.975
2.73	2.71	102	100	-0.02	0.027104	10.04	0.715	0.520	1.200	1.211	0.075
2.01	2.73	100	1.52	-0.02	0.027000	10.35	0.715	0.520	1.230	4,225	0.0077
2.00	2.00	135	152	-0.02	0.020004	10.37	0.720	0.520	1.295	1.220	0.002
2.35	2.39	137	152	-0.02	0.029366	10.00	0.735	0.522	1.200	1.230	0.630
3.04	3.02	130	150	-0.02	0.030175	13.00	0.741	0.522	1.200	1.291	0.000
3.11	3.09	139	152	-0.02	0.030888	19.01	0.745	0.522	1.268	1.245	0.895
3.19	3.17	140	152	-0.03	0.031673	19.03	0.750	0.525	1.275	1,750	0.900
3.25	3.23	140	152	-0.03	0.032318	19.04	0.750	0.525	1.275	1.250	0.900
3.33	3.31	141	151	-0.08	0.033103	19.05	0.754	0.528	1.282	1.254	0.905
3.41	3.38	141	151	-0.03	0.033818	19.07	0.754	0.531	1.284	1.254	0.908
3.48	3.45	142	151	-0.08	0.034523	19.08	0.759	0.531	1.289	1.259	0.910
3.55	3.52	142	151	-0.03	0.035238	19.10	0.758	0.533	1.291	1.258	0.912
3.62	3.60	143	151	-0.04	0.035953	19.11	0.763	0.536	1.299	1.263	0.918
3.69	3.67	143	151	-0.04	0.036668	19.12	0.762	0.536	1.298	1.262	0.917
3.76	3.74	144	150	-0.04	0.037383	19.14	0.767	0.539	1.306	1.267	0.923
3.84	3.82	144	150	-0.04	0.038168	19.15	0.766	0.539	1.305	1.266	0.922
3.91	3.89	144	150	-0.04	0.038873	19.17	0.766	0.542	1.308	1.266	0.925
3.99	3.96	145	150	-0.04	0.039588	19.18	0.771	0.545	1.315	1.271	0.930
4.06	4.03	146	149	-0.05	0.040303	19.20	0.775	0.547	1.323	1.275	0.935
4.13	4.10	147	149	-0.05	0.041018	19.21	0.780	0.550	1.330	1.280	0.940
4.20	4.17	148	149	-0.05	0.041733	19.23	0.785	0.553	1.338	1.285	0.945
4.28	4.25	147	149	-0.05	0.042518	19.24	0.779	0.553	1.332	1.279	0.942
4.35	4.32	148	149	-0.06	0.043233	19.26	0.783	0.556	1.339	1.283	0.947
4.42	4.39	149	148	-0.06	0.043938	19.27	0.788	0.559	1.347	1.288	0.953
4.50	4.47	149	148	-0.06	0.044653	19.28	0.788	0.561	1.349	1.288	0.955
4.57	4.54	150	148	-0.06	0.045368	19.30	0.792	0.564	1.356	1.292	0.960
4.65	4.62	151	147	-0.07	0.046153	19.31	0.797	0.567	1.364	1.297	0.965
4.72	4.69	152	147	-0.07	0.046868	19.33	0.802	0.570	1.371	1.302	0.970
4,79	4,76	152	147	-0.07	0.047583	19.34	0.801	0.572	1,373	1,301	0.973
4,86	4.83	153	147	-0.08	0.048298	19.36	0,806	0.575	1.381	1,306	0.978
4.94	4.91	153	147	-0.08	0.049083	19 37	0.805	0.575	1 380	1 905	0.978
5.02	4.99	154	146	-0.08	0.049868	19.39	0.810	0.578	1.388	1.310	0.983

	Deform.	Celda	Presión	Incremento		Åres	Esfuerzo	a'3	11	11	Esfuerzo
Deformació	Unitaria	Carsta	de poros	deparos	Deform.	Correction	Dewindor	Electivo	Efective	Total	Promedio
n (mm)	5	N	(kPa)	(ket/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kaf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kat/cm <sup>2</sup> )
5.00	5.06	154	146	.0.09	0.050573	10.40	0.909	0.591	1 200	1 200	0.025
5.17	5.14	154	146	-0.08	0.051357	19.42	0.808	0.584	1 392	1 908	0.988
5.35	5.33	100	1.46	-0.08	0.053553	10.44	0.000	0.594	1 207	1 212	0.900
5.33	5.24	156	145	-0.00	0.052857	19.45	0.818	0.569	1.397	1 313	0.990
5.44		400	4.45	0.00	0.0000007	40.47	0.047	0.500	4,400	4.242	0.000
5.41	5.37	100	140	-0.09	0.053721	10.49	0.017	0.500	1,400	1.217	1,000
5.40	5.64	157	145	-0.09	0.055141	19.40	0.821	0.592	1.400	1 321	1.005
5.65	0.01	400	1.4.4	-0.00	0.0000341	10.51	0.021	0.500	1,400	1.201	1.000
5.00	5.59	100	1.44	-0.10	0.055526	19.51	0.925	0.596	1.423	1 995	1.010
5.70	2.24	400		0.40	0.0030041	40.00	0.02.5	0.000	4,455	4.555	1.010
2.70	5.74	159	144	-0.10	0.052330	10.55	0.829	0.603	1,432	1.229	1.017
5.63	5.01	159	1.44	-0.10	0.0000141	10.50	0.923	0.606	1.402	1 999	1.002
6.00	5.00	101	1.4.4	-0.11	0.000000	10.50	0.000	0.000	1.444	4 339	1.000
6.00	5.30	101	1.40	-0.11	0.000056	10.59	0.000	0.600	1.441	1 222	1,025
6.00	0.04	100	140	-0.11	0.0000300	10.63	0.002	0.000	1.441	1.332	1.025
0.10	0.11	100	140	-0.11	0.051140	13.62	0.001	0.011	1,440	1.331	1.027
6.24	6.13	159	140	-0.11	0.061925	13.09	0.025	0.611	1.437	1.325	1.024
0.31	0.20	159	140	-0.11	0.002030	13.60	0.023	0.011	1,430	1.325	1.024
6.39	0.34	159	143	-0.11	0.063415	19.67	0.824	0.514	1.438	1.324	1.025
6.46	6.41	159	143	-0.11	0.064130	19.69	0.823	0.614	1.438	1.323	1.026
0.34	0.43	150	192	-0.12	0.004014	13.70	0.617	0.017	1,435	1.317	1.020
6.62	6.57	159	142	-0.12	0.065699	19.72	0.822	0.617	1.439	1.522	1.028
6.69	6.64	159	142	-0.12	0.066414	19.73	0.821	0.620	1.441	1.321	1.031
6.77	6.72	159	142	-0.12	0.067199	19.75	0.821	0.620	1.440	1.321	1.030
6.85	6.80	159	142	-0.12	0.067983	19.77	0.820	0.620	1.440	1.320	1.030
6.93	6.88	158	142	-0.12	0.068837	19.79	0.814	0.620	1.434	1.314	1.027
7.00	6.96	158	142	-0.12	0.069552	19.80	0.813	0.620	1.433	1.313	1.027
7.08	7.03	157	142	-0.12	0.070337	19.82	0.808	0.623	1.430	1.308	1.025
7.16	7.11	156	142	-0.12	0.071122	19.83	0.802	0.623	1.424	1.302	1.024
7.25	7.20	156	142	-0.13	0.071976	19.85	0.801	0.625	1.426	1.301	1.026
7.32	7.27	156	142	-0.13	0.072691	19.87	0.800	0.625	1.425	1,300	1.025
7.40	7.35	156	142	-0.13	0.073475	19.88	0.800	0.625	1.425	1.300	1.025
7.48	7.43	156	142	-0.13	0.074260	19.90	0.799	0.625	1.424	1,299	1.025
7.55	7.50	157	141	-0.13	0.074975	19.92	0.804	0.628	1.432	1.304	1.030
7.63	7.58	158	141	-0.13	0.075760	19.93	0.808	0.628	1.436	1.308	1.032
7.70	7.65	159	141	-0.13	0.076475	19.95	0.812	0.628	1.441	1.312	1.034
7.78	7.73	159	141	-0.13	0.077259	19.97	0.812	0.628	1.440	1.312	1.034
7.85	7.80	160	141	-0.13	0.077975	19.98	0.816	0.631	1.447	1.316	1.039
7.93	7.88	162	141	-0.13	0.078759	20.00	0.826	0.631	1.457	1.326	1.044
8.01	7.95	163	141	-0.13	0.079544	20.02	0.830	0.631	1.461	1.330	1.046
8.08	8.03	164	141	-0.13	0.080259	20.03	0.835	0.631	1.466	1.335	1.048
8.15	8.10	165	141	-0.13	0.080964	20.05	0.839	0.631	1.470	1.339	1.051
8.23	8.17	166	141	-0.13	0.081749	20.06	0.843	0.631	1.474	1.343	1.053
8.31	8.25	167	141	-0.13	0.082533	20.08	0.848	0.634	1.482	1.348	1.058
8.38	8.32	168	141	-0.13	0.083248	20.10	0.852	0.634	1.486	1.352	1.060
8.45	8.40	167	141	-0.13	0.083963	20.11	0.846	0.634	1.480	1.346	1.057
8.53	8.47	167	140	-0.14	0.084679	20.13	0.846	0.637	1.482	1.346	1.059
8.60	8.54	168	140	-0.14	0.085394	20.14	0.850	0.637	1.487	1.350	1.062
8.66	8.60	169	140	-0.14	0.086029	20.16	0.855	0.637	1.491	1.355	1.064
8.73	8.67	170	140	-0.14	0.086744	20.17	0.859	0.637	1.496	1.359	1.066
8.81	8.75	171	140	-0.14	0.087529	20.19	0.863	0.637	1.500	1.363	1.068
8.89	8.82	171	140	-0.14	0.088244	20.21	0.863	0.639	1.502	1.363	1.071
8.96	8.90	172	140	-0.14	0.088959	20.22	0.867	0.639	1.506	1.367	1.073

	Deform.	Celda	Presión	Incremento		Årea	Erfuerzo	a'3	11	11	Effuerzo
Deformació	Unitaria	Carga	de poros	deporos	Deform.	Corregide	Dervision	Electivo	Efectivo	Total	Promedio
n (mm)	N	N	(kPa)	(kgl/cm <sup>2</sup> )		(cm <sup>2</sup> )	(kg//cm <sup>2</sup> )	(lut/cm²)	(kgt/cm <sup>2</sup> )	(bgi/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )
9.04	8.97	172	140	-0.14	0.089744	20.24	0.866	0.639	1.506	1.366	1.072
9.11	9.05	172	140	-0.14	0.090459	20.26	0.866	0.642	1.508	1.366	1.075
9.19	9.12	172	140	-0.14	0.091243	20.27	0.865	0.642	1.507	1.365	1.075
9.25	9.19	173	140	-0.14	0.091879	20.29	0.869	0.642	1.511	1.369	1.077
9.33	9.27	175	140	-0.14	0.092664	20.30	0.879	0.642	1.521	1.379	1.081
9.40	9.34	176	140	-0.14	0.093379	20.32	0.883	0.642	1.525	1.383	1.084
9.47	9.41	177	140	-0.14	0.094094	20.34	0.887	0.645	1.532	1.387	1.089
9.55	9.49	178	140	-0.14	0.094879	20.35	0.891	0.645	1.536	1.391	1.091
9.62	9.55	179	139	-0.15	0.095524	20.37	0.895	0.648	1.544	1,396	1.096
9.69	9.62	181	139	-0.15	0.096239	20.38	0.905	0.648	1.553	1.405	1.100
9.75	9.69	183	139	-0.15	0.096875	20.40	0.914	0.648	1.562	1.414	1.105
9.83	9.77	184	139	-0.15	0.097659	20.42	0.919	0.648	1.566	1.419	1.107
9.91	9.84	185	139	-0.15	0.098374	20.43	0.923	0.651	1.573	1.423	1.112
9.98	9.92	186	139	-0.15	0.099159	20.45	0.927	0.651	1.578	1.427	1.114
10.06	9.99	187	139	-0.15	0.099874	20.47	0.931	0.653	1.585	1.431	1.119
10.14	10.07	188	139	-0.15	0.100659	20.49	0.936	0.653	1.589	1.436	1.121
10.21	10.14	188	139	-0.15	0.101374	20.50	0.935	0.653	1.588	1.435	1.121
10.29	10.22	188	139	-0.15	0.102159	20.52	0.934	0.653	1.587	1.434	1.120
10.37	10.29	188	139	-0.15	0.102943	20.54	0.933	0.653	1.586	1.433	1.120
10.44	10.37	189	139	-0.16	0.103658	20.55	0.937	0.656	1.593	1.437	1.125
10.52	10.44	190	139	-0.16	0.104443	20.57	0.941	0.656	1.598	1.441	1.127
10.60	10.52	191	139	-0.16	0.105227	20.59	0.946	0.656	1.602	1.446	1.129
10.67	10.60	192	139	-0.16	0.106012	20.61	0.950	0.656	1.606	1.450	1.131
10.74	10.55	193	138	-0.16	0.106648	20.62	0.954	0.659	1.613	1.454	1.136
10.81	10.74	194	138	-0.16	0.10/363	20.64	0.958	0.659	1.617	1458	1.138
10.88	10.81	195	138	-0.16	0.1080/8	20.66	0.962	0.659	1.621	1.462	1.140
10.95	10.03	190	130	-0.15	0.100002	20.67	0.300	0.002	1.020	1.400	1.145
11.03	11.02	197	100	-0.16	0.100076	20.09	0.971	0.662	1,032	1.471	1.147
11.10	11.00	100	120	-0.16	0.110223	20.71	0.975	0.002	1.030	1.470	1.150
11.10	11.10	100	130	-0.10	0.110990	20.72	0.373	0.004	1,040	1,473	1.134
11.20	11.10	190	122	-0.10	0.112667	20.74	0.975	0.667	1,636	1.467	1 151
11.41	11.24	107	107	-0.17	0.1122007	20.70	0.000	0.667	1.634	1.400	1 150
11.49	11.41	197	137	-0.17	0.113352	20.70	0.966	0.667	1,633	1.466	1.150
11.56	11.49	197	137	-0.17	0.114851	20.81	0.965	0.670	1.695	1.465	1 152
11.64	11.56	197	137	-0.17	0.115566	20.83	0.964	0.670	1694	1.464	1 152
11.72	11.64	197	137	-0.17	0.116351	20.85	0.963	0.670	1.633	1.463	1,152
11.79	11.71	197	137	-0.17	0.117186	20.87	0.962	0.673	1635	1.462	1154
11.88	11.80	196	137	-0.17	0.117990	20.89	0.957	0.673	1.629	1.457	1,151
11.96	11.88	196	137	-0.18	0.118774	20.91	0.956	0.676	1.631	1.456	1.153
12.04	11.96	196	137	-0.17	0.119559	20.92	0.955	0,673	1.628	1,455	1.150
12.12	12.03	195	137	-0.18	0.120344	20.94	0.949	0.676	1.625	1.449	1.150
12.18	12.10	193	137	-0.18	0.120989	20.96	0.939	0.676	1.614	1,439	1.145
12.26	12.18	194	136	-0.18	0.121774	20.98	0.943	0.678	1.621	1.443	1.150
12.35	12.27	194	136	-0.18	0.122697	21.00	0.942	0.678	1.620	1.442	1.149
12.43	12.35	194	136	-0.18	0.123482	21.02	0.941	0.678	1.619	1.441	1.149
12.51	12.43	194	136	-0.18	0.124267	21.04	0.940	0.678	1.618	1.440	1.148
12.58	12.50	194	136	-0.18	0.124982	21.05	0.939	0.681	1.620	1.439	1.151
12.66	12.58	195	136	-0.18	0.125766	21.07	0.943	0.681	1.624	1.443	1.153
12.74	12.65	196	136	-0.18	0.126481	21.09	0.947	0.681	1.628	1.447	1.155
12.81	12.73	197	136	-0.18	0.127266	21.11	0.951	0.684	1.635	1.451	1.160
12.89	12.80	198	136	-0.18	0.127981	21.13	0.955	0.684	1.639	1.455	1.162

	Deform.	Celda	Presión	Incremento		Åres	Esfuerzo	a'3	- 11	- 11	Esfuerzo
Deformació	Unitaria	Carpo	de poros	deporos	Deform.	Correction	Dervindor	Electivo	Dectivo	Total	Promedio
n (mm)	8	N	(kPa)	(ket/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kat/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kat/cm <sup>2</sup> )
12.96	12.87	199	136	-0.18	0.128696	21.14	0.959	0.684	1.643	1.459	1 164
13.04	12.95	200	136	-0.18	0.129481	21.16	0.963	0.684	1.647	1.463	1.166
13.11	13.02	200	135	-0.19	0.130196	21.18	0.963	0.687	1.649	1.463	1.168
13.19	13.10	201	135	-0.19	0.130981	21.20	0.966	0.687	1.653	1,466	1.170
13.27	13.18	202	135	-0.19	0.131765	21.22	0.970	0.687	1.657	1,470	1.172
13.35	13.25	202	135	-0.19	0.132550	21.24	0.970	0.687	1.656	1.470	1.172
13.42	13.33	203	135	-0.19	0.133255	21.26	0.974	0.690	1.663	1.474	1.176
13.49	13.40	203	135	-0.19	0.133970	21.27	0.973	0.690	1.662	1.473	1.176
13.56	13.47	203	135	-0.19	0.134685	21.29	0.972	0.690	1.661	1.472	1.175
13.64	13.55	204	135	-0.19	0.135470	21.31	0.976	0.690	1.665	1.476	1.177
13.71	13.62	204	135	-0.19	0.136185	21.33	0.975	0.692	1.667	1.475	1.180
13.78	13.69	206	135	-0.19	0.136900	21.35	0.984	0.692	1.676	1.484	1.184
13.86	13.77	206	135	-0.19	0.137685	21.36	0.983	0.692	1.675	1.483	1.184
13.94	13.84	207	135	-0.20	0.138400	21.38	0.987	0.695	1.682	1.487	1.189
14.01	13.91	207	135	-0.20	0.139105	21.40	0.986	0.695	1.681	1.486	1.188
14.08	13.98	208	135	-0.20	0.139820	21.42	0.990	0.695	1.685	1.490	1.190
14.15	14.05	207	135	-0.20	0.140535	21.44	0.984	0.695	1.679	1.484	1.187
14.23	14.13	208	134	-0.20	0.141320	21.46	0.988	0.698	1.686	1.488	1.192
14.31	14.21	207	134	-0.20	0.142104	21.47	0.983	0.698	1.680	1.483	1.189
14.39	14.29	208	134	-0.20	0.142889	21.49	0.986	0.698	1.684	1.486	1.191
14.45	14.35	209	134	-0.20	0.143534	21.51	0.990	0.701	1.691	1,490	1.196
14.52	14.42	210	134	-0.20	0.144249	21.53	0.994	0.701	1.695	1.494	1.198
14.60	14.50	211	134	-0.20	0.145034	21.55	0.998	0.701	1.699	1.498	1.200
14.67	14.57	212	134	-0.20	0.145739	21.57	1.002	0.703	1.706	1.502	1.204
14.75	14.65	214	134	-0.20	0.146454	21.58	1.011	0.703	1.714	1.511	1.209
14.81	14.71	215	134	-0.20	0.147100	21.60	1.015	0.703	1.718	1.515	1.211
14.88	14.78	217	134	-0.20	0.147815	21.62	1.023	0.703	1.727	1.523	1.215
14.96	14.85	218	134	-0.20	0.148530	21.64	1.027	0.703	1.731	1.527	1.217
15.03	14.93	219	134	-0.20	0.149315	21.66	1.031	0.703	1.734	1.531	1.219
15.11	15.01	219	134	-0.21	0.150099	21.68	1.030	0.706	1.736	1.530	1.221
15.18	15.08	220	133	-0.21	0.150804	21.69	1.034	0.709	1.743	1.534	1.226
15.26	15.16	221	134	-0.21	0.151589	21.71	1.037	0.706	1.744	1.537	1.225
15.34	15.23	221	134	-0.21	0.152304	21.73	1.037	0.706	1.743	1.537	1.225
15.41	15.31	222	133	-0.21	0.153089	21.75	1.040	0.709	1.749	1.540	1.229
15.49	15.38	223	133	-0.21	0.153804	21.77	1.044	0.709	1.753	1.544	1.231
15.57	15.46	223	133	-0.21	0.154588	21.79	1.043	0.712	1.755	1.543	1.233
15.64	15.54	223	133	-0.21	0.155373	21.81	1.042	0.712	1.754	1.542	1.233
15.72	15.62	224	133	-0.21	0.156158	21.83	1.046	0.712	1.758	1.546	1.235
15.79	15.68	225	133	-0.21	0.156803	21.85	1.050	0.715	1.764	1.550	1.239
15.87	15.76	225	133	-0.21	0.157588	21.87	1.049	0.715	1.763	1.549	1.239
15.94	15.83	226	133	-0.21	0.158303	21.89	1.053	0.715	1.767	1.553	1.241
16.02	15.91	227	133	-0.21	0.159088	21.91	1.056	0.715	1.771	1.556	1.243
16.09	15.98	228	132	-0.22	0.159793	21.93	1.060	0.717	1.777	1.560	1.247
16.16	16.05	229	132	-0.22	0.160508	21.95	1.064	0.717	1.781	1.564	1.249
16.24	16.13	230	132	-0.22	0.161292	21.97	1.067	0.717	1.785	1.567	1.251
16.32	16.21	230	132	-0.22	0.162077	21.99	1.065	0.717	1.784	1.566	1.251
16.40	16.29	229	132	-0.22	0.162862	22.01	1.061	0.717	1.778	1.561	1.248
16.47	16.36	229	132	-0.22	0.163577	22.03	1.060	0.720	1.780	1.560	1.250
16.54	16.43	229	132	-0.22	0.164292	22.04	1.059	0.720	1.779	1.559	1.250
16.62	16.51	230	132	-0.22	0.165076	22.07	1.063	0.720	1.783	1.563	1.251
16.70	16.59	230	132	-0.22	0.165861	22.09	1.062	0.723	1.785	1.562	1.254
16.77	16.66	230	132	-0.22	0.166576	22.11	1.061	0.723	1.784	1.561	1.253

	Deform.	Celda	Presión	Incremento		Åres	Esfuerzo	13	11	11	Enfuerzo
Deformació	Unitaria	Carga	de poros	deporos	Deform.	Corregida	Deviador	Electivo	Efectivo	Total	Promedio
n (mm)		N	(kPa)	(kgl/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm²)	(kgl/cm <sup>2</sup> )
16.86	16.74	229	132	-0.22	0.167430	22.13	1.055	0.723	1.778	1.555	1.250
16.93	16.81	230	132	-0.22	0.168145	22.15	1.059	0.723	1.782	1.559	1.252
17.01	16.89	230	132	-0.22	0.168930	22.17	1.058	0.723	1.781	1.558	1.252
17.10	16.98	229	132	-0.23	0.169784	22.19	1.052	0.726	1.778	1.552	1.252
17.17	17.06	228	132	-0.23	0.170569	22.21	1.046	0.726	1.772	1.546	1.249
17.25	17.14	228	132	-0.23	0.171353	22.23	1.045	0.726	1.771	1.545	1.248
17.33	17.21	227	132	-0.23	0.172068	22.25	1.040	0.726	1.766	1.540	1.246
17.40	17.29	228	131	-0.23	0.172853	22.27	1.043	0.729	1.772	1.543	1.250
17.48	17.36	227	131	-0.23	0.173638	22.29	1.038	0.729	1.766	1.538	1.247
17.56	17.44	228	131	-0.23	0.174422	22.32	1.042	0.729	1.770	1.542	1.249
17.63	17.51	228	131	-0.23	0.175137	22.33	1.041	0.729	1.769	1.541	1.249
17.71	17.59	229	131	-0.23	0.175922	22.36	1.044	0.729	1.773	1.544	1.251
17.79	17.66	229	131	-0.23	0.176637	22.38	1.043	0.731	1.775	1.543	1.253
17.86	17.74	230	131	-0.23	0.177422	22.40	1.047	0.731	1.778	1.547	1.255
17.94	17.81	230	131	-0.23	0.178127	22.42	1.046	0.731	1.777	1.546	1.254
18.01	17.88	232	131	-0.23	0.178842	22.44	1.054	0.731	1.785	1.554	1.258
18.08	17.96	233	131	-0.23	0.179557	22.46	1.058	0.734	1.792	1.558	1.263
18.17	18.04	234	131	-0.23	0.180411	22.48	1.061	0.734	1.795	1.561	1.265
18.24	18.12	234	131	-0.23	0.181196	22.50	1.060	0.734	1.794	1.560	1.264
18.32	18.20	234	130	-0.24	0.181980	22.52	1.059	0.737	1.796	1.559	1.266
18.39	18.26	237	130	-0.24	0.182626	22.54	1.072	0.737	1.809	1.572	1.273
18.47	18.34	238	130	-0.24	0.183411	22.56	1.075	0.737	1.812	1.575	1.275
18.53	18.41	239	130	-0.24	0.184056	22.58	1.079	0.737	1.816	1.579	1.276
18.61	18.48	239	130	-0.24	0.184841	22.60	1.078	0.740	1.818	1.578	1.279
18.69	18.55	239	130	-0.24	0.185625	22.62	1.077	0.740	1.817	1.577	1.278
18.75	18.53	239	130	-0.24	0.186261	22.64	1.076	0.740	1.815	1.576	1.278
18.83	18.70	240	130	-0.24	0.18/046	72.66	1.080	0.742	1.822	1.580	1.282
18.90	18.77	241	130	-0.24	0.187691	22.68	1.083	0.742	1.825	1.583	1.284
10.90	10.03	241	130	-0.29	0.1004/0	22.70	1.082	0.742	1.025	1.504	1.209
13.05	10.92	242	120	-0.25	0.169191	22.72	1.000	0.745	1.031	1.200	1.200
19.15	19.00	242	130	-0.25	0.189976	22.79	1.085	0.745	1,630	1 599	1.200
10.50	10.10	244	430	0.00	0.100001	33.70	1.000	0.745	4,000	1 570	4 394
10.20	10.15	241	130	-0.25	0.191475	22.79	1.073	0.745	1,023	1 577	1.209
19.43	19.30	241	129	-0.25	0.192975	22.83	1.076	0.748	1.824	1.576	1 286
19.50	19.37	241	129	.0.25	0.193580	22.85	1.075	0.751	1.826	1 575	1 388
19.58	19.45	242	129	.0.25	0 194465	22.87	1.079	0.751	1.829	1 579	1 290
19.65	19.51	244	129	.0.25	0.195110	22.89	1.087	0.751	1.837	1 587	1 294
19.72	19.59	245	129	-0.25	0.195895	22.91	1.090	0.751	1.841	1.590	1,296
19.80	19.66	246	129	-0.25	0.196610	22.93	1.094	0.751	1.844	1.594	1,298
19.87	19.73	247	129	-0.25	0.197325	22.95	1.097	0.751	1.848	1.597	1,299
19.94	19.80	248	129	-0.25	0.198030	22.97	1.100	0.754	1.854	1.600	1.304
20.01	19.87	250	128	-0.26	0.198745	22.99	1.108	0.756	1.865	1.608	1.311
6				Etapa	i de falla ser	gundo incre	emento				
	Deform	Califa	Preside	Incremento		Area	Esfuerzo	1'3	61	- 11	Enfuerzo
Deformació	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Desvision	Electivo	Electivo	Total	Promedio
n (mm)	8	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(lugt/cm <sup>2</sup> )	(lug!/cm <sup>1</sup> )	(kgt/cm <sup>2</sup> )	$(lat/cm^2)$
0.00	0.00	0	195	0.00	0.000000	18.38	0.000	1.000	1.000	1.000	1.000
0.08	0.08	15	197	0.02	0.000790	18.39	0.083	0.980	1.064	1.083	1.022
0.15	0.15	- 24	199	0.04	0.001509	18.41	0.133	0.964	1.097	1.133	1.030
0.22	0.22	31	200	0.05	0.002219	18.42	0.172	0.953	1.124	1.172	1.038

	Deform.	Celda	Presión	Incremento		Åres	Esfuerzo	13	11	11	Esfuerzo
Deformació	Unitaria	Carro	de poros	deporos	Deform.	Correction	Devindor	Dectivo	Efective	Total	Promedio
n (mm)	*	N	(kPn)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kg//cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
0.29	0.29	95	200	0.05	0.002938	18.43	0.194	0.947	1 141	1 194	1.044
0.37	0.37	39	201	0.06	0.003728	18.45	0.215	0.941	1 157	1 215	1.049
0.45	0.45	44	202	0.05	0.004517	18.46	0.243	0.936	1 179	1.243	1.057
0.53	0.53	48	202	0.00	0.005307	18.48	0.265	0.933	1 198	1.265	1.055
0.51	0.65	60	202	0.07	0.006006	10.40	0.202	0.000	1.212	1 397	1.004
0.69	0.69	55	202	0.07	0.006886	18.51	0.303	0.938	1,230	1 202	1.079
0.76	0.76	58	202	0.07	0.007605	18.52	0.319	0.928	1 247	1319	1.087
0.85	0.85	61	202	0.07	0.008465	18.54	0.995	0.928	1 263	1 335	1.095
0.92	0.92	64	203	0.08	0.009184	18.55	0.352	0.925	1 276	1 353	1 101
1.00	1.00	60	200	0.08	0.000074	10.00	0.972	0.935	1 399	1 272	1 1 1 1
1.08	1.08	20	203	0.08	0.010264	18.58	0.384	0.925	1 309	1 384	1 117
1.14	1.14	73	203	0.08	0.011413	18.59	0.400	0.925	1 325	1.400	1 1 2 5
1.33	4.99	76	3/00	0.09	0.012202	10.01	0.416	0.005	1 9.41	1.416	1 100
1.22	1.24	80	200	0.00	0.012203	18.62	0.438	0.925	1 366	1.438	1.133
1 37	4.97	00	202	0.09	0.012713	10.00	0.454	0.035	1.970	1.454	1.150
1.37	1.37	90	200	0.02	0.013712	10.00	0.439	0.925	1.379	1.470	1.152
1.53	1.09	90	2002	0.07	0.019931	10.00	0.496	0.928	1.330	1.400	1.100
1 50	1 50	00	202	0.07	0.015020	10.00	0.500	0.920	1.400	1,500	1 101
1.59	1.55	92	202	0.07	0.015550	19.00	0.502	0.930	1,402	1.502	1 194
1.07	1.07	95	202	0.07	0.017370	18.70	0.507	0.930	1.450	1.507	1.109
1.93	1.03	07	300	0.07	0.010150	10.70	0.530	0.000	1.461	1 530	1 107
1.02	1.02	300	2002	0.07	0.010239	19.72	0.520	0.935	1.401	1 544	1.107
1.03	1.07	100	202	0.05	0.010007.7	40.75	0.555	0.000	1,400	4 666	4.949
2.04	2.04	102	202	0.06	0.010000	10.75	0.335	0.936	1,400	1 565	1.213
2.04	2.04	107	201	0.06	0.020300	19.70	0.505	0.939	1,509	1 591	1 220
2.10	3.10	100	201	0.00	0.001997	10.70	0.501	0.000	1,520	1 501	1 3 3 4
2.15	2.13	112	201	0.06	0.021697	18.81	0.501	0.941	1.530	1.591	1.2.34
2.25	3.05	115	201	0.00	0.032476	10.03	0.007	0.041	1 564	1.633	1 363
2.33	2.22	118	201	0.06	0.023476	18.83	0.629	0.941	1.580	1.629	1.200
2.49	2.49	121	201	0.06	0.024905	18.85	0.654	0.944	1 599	1.654	1 271
2.45	2.52	134	201	0.06	0.035605	10.00	0.670	0.944	1 614	1.670	1 3 7 8
2.66	2.66	127	200	0.05	0.026554	18.88	0.686	0.947	1.633	1.686	1 290
2.00	3.75	120	200	0.05	0.0020004	10.00	0.304	0.950	1 651	1 204	1 201
2.73	2.72	100	200	0.05	0.0027274	19.00	0.701	0.950	1.001	1.717	1.201
2.88	2.88	135	200	0.05	0.028783	18.92	0.727	0.953	1.680	1 727	1 3 16
2.05	2.05	100	300	0.05	0.039503	19.04	0.742	0.952	1 605	1 742	1 2 3 4
3.03	3.03	141	200	0.05	0.030292	18.95	0.758	0.955	1 714	1758	1 995
2.10	2.10	140	100	0.04	0.001011	10.07	0.760	0.050	1 7 7 7	1 700	1 9 4 9
3.10	3.10	145	199	0.04	0.031801	18.98	0.705	0.958	1.740	1.703	1.292
3.26	3.26	148	199	0.04	0.032590	19.00	0.794	0.961	1.755	1 794	1 358
2.22	0.00	161	100	0.04	0.032310	19.01	0.910	0.064	1 772	1,810	1 200
3.41	3.41	153	198	0.03	0.034100	19.03	0.820	0.967	1 786	1.820	1 3 7 6
3.40	2,50	100	100	0.02	0.034999	19.04	0.995	0.000	1,904	1,995	1 297
2,49	2.62	100	1.00	0.05	0.035676	19.64	0.850	0.969	1,820	1.850	1 205
3.65	8.65	161	198	0.03	0.036468	19.08	0.850	0.972	1,833	1,850	1,402
3 73	5.23	100	100	0.02	0.037199	19.00	0.870	0.075	1.945	1,870	1,410
3.80	3.80	166	197	0.03	0.037977	19.10	0.886	0.978	1.853	1,886	1,421
3.87	3.87	168	197	0.02	0.038687	19.12	0.896	0.980	1.876	1,896	1,428
29.5	2.95	170	197	0.02	0.039476	19.13	0.906	0.980	1 896	1 906	1,493
4.02	4.02	172	197	0.02	0.040196	19.15	0.916	0.983	1,899	1916	1 441
4.09	4.09	174	196	0.01	0.040915	19.16	0.926	0.986	1 912	1 926	1,449
4.17	4,16	175	196	0.01	0.041635	19.18	0.930	0.989	1,919	1,930	1,454

	Deform.	Calda	Prasilian	Incremento		Åres	Estuerzo	13	11	11	Esfuerzo
Deformació	Unitaria	Cargo	de poros	deporos	Deform.	Corregide	Desviedor	Electivo	Electivo	Total	Promedio
n (mm)	5	N	(kPa)	(kgl/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(legt/cm <sup>2</sup> )
4.25	4.24	177	195	0.01	0.042425	19.19	0.940	0.992	1 932	1 940	1462
4.31	4.31	179	196	0.01	0.043074	19.21	0.950	0.994	1.944	1.950	1,469
4.39	4.39	180	196	0.01	0.043864	19.22	0.955	0.994	1.949	1955	1.472
4.46	4.46	182	195	0.00	0.044573	19.24	0.964	0.997	1.962	1964	1.479
4.53	4.53	183	195	0.00	0.045293	19.25	0.969	1,000	1969	1969	1.484
4.60	4.60	185	195	0.00	0.046012	19.27	0.979	1.003	1 982	1 979	1.492
4.68	4.67	186	195	-0.01	0.046732	19.28	0.983	1.006	1,989	1.983	1,497
4.75	4.75	188	195	-001	0.047452	19.29	0.993	1.005	1 999	1993	1 502
4.82	4.82	189	194	-001	0.048171	19.31	0.998	1011	2 009	1998	1 510
4.99	4.88	190	194	.0.01	0.048811	19.32	1 002	1.011	2 014	2 002	1 512
4.96	4.96	193	194	-0.01	0.049600	19.34	1 012	1.014	2 026	2 012	1 520
5.03	5.02	194	193	-0.02	0.050250	19.35	1 022	1.017	2 039	2 622	1 528
5 4 4	5.10	105	100	-0.00	0.051028	10.07	1.006	1,000	3.046	2,006	4 6 3 5
5.11	5.10	195	102	-0.02	0.051939	10.37	1.025	1,020	2,040	2,025	1,533
E 96	2.10 E 35	100	400	-0.00	0.0001023	10.20	1.040	1.005	3,024	2,000	1.520
2.20	5.25	202	193	-0.03	0.052348	10.40	1.046	1.025	2.071	2,095	1.548
5.33	5.33	201	102	-0.00	0.003200	10.41	1.005	1,020	2,000	2,000	1.000
2.42	5.41	203	132	-0.05	0.004128	13,43	1.005	1.020	2,000	2.000	1.500
5.49	5.46	204	152	-0.03	0.054847	19.45	1.069	1.031	2.100	2.069	1.565
5.57	5.55	206	192	-0.03	0.055637	19.46	1.079	1.033	2.112	2.079	1.573
5.65	5.64	208	191	-0.04	0.056426	19.48	1.089	1.036	2.125	2.089	1.580
5.73	5.72	209	191	-0.04	0.057216	19.49	1.093	1.039	2.132	2.093	1.585
5.80	5.79	211	191	-0.04	0.057925	19.51	1.102	1.042	2.144	2.102	1.593
5.88	5.87	212	191	-0.04	0.058715	19.53	1.107	1.045	2.151	2.107	1.598
5.95	5.95	215	191	-0.04	0.059504	19.54	1.121	1.045	2.166	2.121	1.605
6.03	6.02	217	190	-0.05	0.060224	19.56	1.131	1.050	2.181	2.131	1.616
6.10	6.09	219	190	-0.05	0.060943	19.57	1.141	1.050	2.191	2.141	1.620
6.18	6.18	221	190	-0.05	0.061803	19.59	1.150	1.053	2.203	2.150	1.628
6.25	6.25	223	190	-0.06	0.062453	19.60	1.160	1.056	2.215	2.160	1.636
6.33	6.32	225	189	-0.06	0.063242	19.62	1.169	1.059	2.228	2.169	1.643
6.40	6.40	227	189	-0.06	0.063962	19.64	1.178	1.061	2.240	2.178	1.651
6.48	6.48	229	189	-0.06	0.064751	19.65	1.188	1.064	2.252	2.188	1.658
6.55	6.55	231	188	-0.07	0.065471	19.67	1.197	1.067	2.264	2.197	1.666
6.62	6.62	232	188	-0.07	0.066180	19.68	1.202	1.070	2.271	2.202	1.670
6.70	6.70	232	188	-0.07	0.066970	19.70	1.201	1.072	2.273	2.201	1.673
6.77	6.77	231	188	-0.08	0.067689	19.71	1.194	1.075	2.270	2.194	1.672
6.85	6.85	232	188	-0.08	0.068479	19.73	1.199	1.075	2.274	2.199	1.675
6.92	6.92	233	187	-0.08	0.069198	19.75	1.203	1.078	2.281	2.203	1.679
7.00	7.00	234	187	-0.08	0.069988	19.76	1.207	1.081	2.288	2.207	1.684
7.08	7.08	234	187	-0.08	0.070778	19.78	1.206	1.084	2.290	2.206	1.687
7.15	7.15	234	186	-0.09	0.071497	19.79	1.205	1.086	2.291	2.205	1.689
7.23	7.22	235	186	-0.09	0.072217	19.81	1.209	1.089	2.298	2.209	1.694
7.31	7.30	236	186	-0.09	0.073006	19.83	1.213	1.092	2.305	2.213	1.699
7.38	7.38	237	186	-0.09	0.073796	19.84	1.217	1.095	2.312	2.217	1.703
7.46	7.46	237	186	-0.09	0.074585	19.86	1.216	1.095	2.311	2.216	1.703
7.54	7.53	238	185	-0.10	0.075305	19.88	1.221	1.100	2.321	2.221	1.711
7.61	7.61	240	185	-0.10	0.076094	19.89	1.230	1.100	2.330	2.230	1.715
7.69	7.68	241	185	-0.10	0.076814	19.91	1.234	1.103	2.337	2.234	1.720
7.77	7.77	243	185	-0.11	0.077673	19.93	1.243	1.106	2.349	2.243	1.727
7.84	7.84	245	184	-0.11	0.078393	19.94	1.252	1.109	2.361	2.252	1.735
7.92	7.92	246	184	-0.11	0.079182	19.96	1.256	1.111	2.368	2.256	1.740
8.00	8.00	247	184	-0.11	0.079972	19.98	1.260	1.114	2.375	2.260	1.744
8.08	8.08	248	184	-0.11	0.080762	19.99	1.264	1.114	2.379	2.264	1.746

	Dedecase	Californi	Benelije	Incremento		Åren	Infrarro	13	11	11	Enfrances
Deformació	Unitaria	Carpo	de poros	deporos	Deform.	Correctide	Deviador	Efective	Efectivo	Total	Promedio
n (mm)	×	N	(kPn)	(ket/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(ket/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(ket/cm <sup>2</sup> )
8.15	815	250	183	.0.12	0.081471	20.01	1 274	1 1 2 0	2 393	2 274	1 757
8.23	8.23	252	183	-0.12	0.082261	20.03	1 283	1 1 2 3	2.405	2 283	1 764
8 30	8 30	258	183	-0.12	0.082980	20.04	1 287	1 1 2 3	2.409	2 287	1 766
8 38	8 38	254	183	-0.13	0.083770	20.05	1 291	1.125	2.416	2 291	1 771
8.45	8.45	256	182	-0.13	0.084489	20.08	1 300	1 1 2 8	2.428	2 300	1 778
8.53	853	257	182	-0.13	0.085279	20.09	1 304	1 1 3 1	2.435	2 304	1 783
8.61	8.60	259	182	-0.13	0.085998	20.11	1.313	1.134	2,447	2,313	1,790
8.68	8.68	260	182	-0.13	0.086788	20.13	1 317	1 1 9 4	2.451	2 817	1 792
8.76	8.75	261	181	-0.14	0.087507	20.14	1 321	1 1 9 9	2.460	2 321	1.800
8.84	8.83	262	181	.0.14	0.088297	20.16	1 9 2 5	1 1 9 9	2.464	2 225	1.802
8.91	8.90	262	181	-0.14	0.089017	20.18	1 924	1 145	2.469	2 324	1.807
8.99	898	263	181	-0.14	0.089806	20.19	1 328	1.145	2.473	2 328	1.809
9.06	9.05	264	180	-0.15	0.090516	20.21	1 3 3 2	1 148	2.479	2 882	1.814
9.13	9.12	264	180	-0.15	0.091235	20.22	1 3 3 1	1 151	2.481	2 331	1.816
9.30	0.30	364	190	-0.15	0.091955	20.24	1 3 3 0	1 100	3.493	3 220	1 010
9.20	9.20	105	170	-0.15	0.091355	20.29	1 3 3 3	1.155	2,400	1 222	1.010
9.85	9.95	265	179	-0.16	0.093464	20.27	1 9 9 9	1 159	2,491	2 882	1.825
9.43	9.43	100	170	-0.16	0.004193	20.20	1 3 3 1	1.163	3,400	3 334	1.937
9.49	9.48	265	179	-0.10	0.094823	20.30	1 3 3 0	1.162	2,492	2 330	1.827
9.57	9.56	265	179	-0.15	0.095613	20.32	1 3 2 9	1 164	2.494	2 829	1.829
0.64	0.00	100	170	-0.17	0.0060000	20.24	1 3 3 8	1 167	3.405	3 3 3 9	1.001
9.71	9.71	205	178	-0.17	0.096352	20.39	1 9 8 9	1.107	2,400	2.200	1,835
0.70	0.70	200	170	-0.17	0.007773	30.37	4.004	4.470	0.004	3 3 3 4	1.000
3.70	3./0	200	170	-0.17	0.007771	20.37	1.331	1.173	2.509	2.331	1.030
2.00	9.05	200	179	-0.12	0.096491	20.39	1,330	1.175	2,505	2.330	1,030
3.32	3.31	200	170	-0.10	0.000131	20,40	1.323	1.170	2.300	2.323	1.040
9,39	3.33	200	177	-0.18	0.000000	20.42	1.320	1.1/0	2.500	2.320	1.042
10.06	10.00	207	177	-0.10	0.100570	20.45	1.332	1.101	2.513	2.332	1.047
10.14	10.13	258	177	-0.18	0.101289	20.45	1.335	1.184	2.520	2.335	1.852
10.21	10.21	203	175	-0.19	0.102079	20.47	1.340	1.167	2.520	2.390	1.007
10.29	10.20	230	1/0	-0.19	0.102795	20.49	1.344	1.190	2.533	2.399	1.001
10.35	10.35	271	176	-0.19	0.103518	20.50	1.347	1.192	2.540	2.347	1.865
10.44	10.44	272	176	-0.19	0.104377	20.52	1.351	1.192	2.543	2.351	1.868
10.52	10.51	274	1/6	-0.20	0.105097	20.54	1.360	1.195	2.555	2.360	1.875
10.60	10.59	275	175	-0.20	0.105885	20.56	1.364	1.198	2.562	2.364	1.880
10.67	10.67	275	1/5	-0.20	0.106676	20.57	1.363	1.201	2.563	2.36.5	1.882
10.75	10.75	277	175	-0.20	0.107465	20.59	1.371	1.203	2.575	2.371	1.889
10.83	10.83	278	174	-0.21	0.108255	20.61	1.375	1.206	2.581	2.375	1.894
10.91	10.90	279	174	-0.21	0.109045	20.63	1.379	1.209	2.588	2.379	1.898
10.99	10.98	281	174	-0.21	0.109834	20.65	1.387	1.209	2.596	2.387	1.903
11.07	11.05	282	174	-0.21	0.110524	20.67	1.391	1.212	2,603	2.391	1.907
11.15	11.14	284	173	-0.22	0.111413	20.68	1.400	1.217	2.617	2.400	1.917
11.22	11.21	285	173	-0.22	0.112123	20.70	1.403	1.217	2.621	2.403	1.919
11.29	11.28	286	173	-0.22	0.112842	20.72	1.407	1.220	2.627	2.407	1.924
11.37	11.36	288	173	-0.22	0.113632	20.74	1.416	1.223	2.639	2.416	1.931
11.44	11.44	290	173	-0.23	0.114351	20.75	1.424	1.226	2,650	2.424	1.938
11.52	11.51	291	172	-0.23	0.115141	20.77	1.428	1.229	2.657	2.428	1.943
11.60	11.59	292	172	-0.23	0.115930	20.79	1.432	1.231	2.663	2.432	1.947
11.67	11.67	292	172	-0.23	0.116650	20.81	1.431	1.234	2,665	2.431	1.949
11.74	11.74	292	172	-0.23	0.117370	20.82	1.429	1.234	2.664	2.429	1.949
11.82	11.82	292	171	-0.24	0.118159	20.84	1.428	1.237	2,665	2.428	1.951
11.90	11.89	291	171	-0.24	0.118879	20.86	1.422	1.240	2.662	2.422	1.951
11.97	11.97	290	171	-0.24	0.119668	20.88	1.416	1.242	2.658	2.416	1.950

	Deform.	Celda	Presión	Incremento		Åres	Esfuerzo	13	11	11	Effuerzo
Deformació	Unitaria	Cargo	de poros	deporos	Deform.	Corregide	Deviedor	Efectivo	Efectivo	Total	Promedio
n (mm)	5	N	(kPn)	(kgi/cm <sup>*</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm²)	(kg(/cm <sup>*</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )
12.05	12.04	290	171	-0.24	0.120388	20.89	1.415	1.242	2.657	2.415	1.950
12.12	12.11	290	170	-0.25	0.121097	20.91	1.414	1.248	2,662	2.414	1.955
12.20	12.19	291	170	-0.25	0.121887	20.98	1.417	1.248	2.665	2.417	1.957
12.28	12.27	291	170	-0.25	0.122676	20.95	1.416	1.251	2.667	2.416	1.959
12.35	12.34	290	170	-0.25	0.123396	20.97	1.410	1.254	2.664	2.410	1.959
12.42	12.41	290	169	-0.26	0.124116	20.98	1.409	1.256	2,665	2.409	1.961
12.50	12.49	291	169	-0.26	0.124905	21.00	1.412	1.259	2.672	2.412	1.965
12.58	12.58	293	169	-0.26	0.125765	21.02	1.421	1.259	2.680	2.421	1.970
12.66	12.66	293	169	-0.26	0.126554	21.04	1.419	1.262	2.681	2.419	1.972
12.74	12.73	295	169	-0.26	0.127344	21.06	1.428	1.265	2.693	2.428	1.979
12.81	12.81	296	168	-0.27	0.128063	21.08	1.431	1.268	2.699	2.431	1.983
12.90	12.89	298	168	-0.27	0.128923	21.10	1.440	1.270	2.710	2.440	1.990
12.98	12.97	299	168	-0.27	0.129712	21.12	1.443	1.270	2.714	2.443	1.992
13.05	13.04	300	168	-0.27	0.130432	21.14	1.447	1.273	2.720	2.447	1.997
13.13	13.12	301	168	-0.28	0.131221	21.16	1.450	1.276	2.726	2.450	2.001
13.21	13.20	301	167	-0.28	0.132011	21.17	1.449	1.279	2.728	2.449	2.008
13.28	13.27	303	167	-0.28	0.132730	21.19	1.457	1.279	2.736	2.457	2.007
13.36	13.35	304	167	-0.28	0.133520	21.21	1.461	1.282	2.742	2.461	2.012
13.43	13.42	305	167	-0.28	0.134239	21.23	1.465	1.284	2.749	2.465	2.017
13.51	13.50	305	166	-0.29	0.135029	21.25	1.463	1.287	2.750	2.463	2.019
13.59	13.58	307	166	-0.29	0.135819	21.27	1.471	1.290	2.761	2.471	2.026
13.66	13.65	308	166	-0.29	0.136538	21.29	1.475	1.290	2.765	2.475	2.027
13.73	13.72	308	166	-0.29	0.137248	21.30	1.474	1.293	2.766	2.474	2.030
13.81	13.80	309	166	-0.30	0.138037	21.32	1.477	1.295	2.773	2.477	2.034
13.89	13.88	310	166	-0.30	0.138837	21.34	1.481	1.295	2.776	2.481	2.036
13.96	13.95	311	165	-0.30	0.139546	21.36	1.484	1.298	2.782	2.484	2.040
14.04	14.03	311	165	-0.30	0.140266	21.38	1.483	1.301	2.784	2.483	2.042
14.11	14.11	311	165	-0.30	0.141055	21.40	1.482	1.304	2.785	2.482	2.045
14.19	14.18	312	164	-0.31	0.141775	21.42	1.485	1.307	2.792	2.485	2.049
14.27	14.26	312	164	-0.31	0.142564	21.44	1.484	1.307	2.790	2.484	2.048
14.34	14.33	312	164	-0.31	0.143284	21.45	1.482	1.309	2.792	2.482	2.051
14.40	14.39	312	164	-0.31	0.143924	21.47	1.481	1.312	2.794	2.481	2.053
14.47	14.46	313	164	-0.31	0.144643	21.49	1.485	1.315	2.800	2.485	2.057
14.55	14.54	313	164	-0.31	0.145433	21.51	1.484	1.315	2.798	2.484	2.057
14.62	14.62	313	163	-0.32	0.146152	21.53	1.482	1.318	2.800	2.482	2.059
14.70	14.59	313	163	-0.52	0.146872	21.54	1.481	1.321	2,802	2.481	2.061
14.77	14.76	313	163	-0.32	0.147591	21.56	1.480	1.323	2.803	2.480	2.063
14.84	14.85	313	163	-0.52	0.148311	21.58	1.479	1.323	2.802	2,479	2.063
14.91	14.90	313	162	-0.33	0.149021	21.60	1.4//	1.325	2.803	2.4//	2.065
14.20	14.37	314	102	-0.33	0.149740	21.02	1.401	1.329	2.0.10	2.401	2,009
15.05	15.05	313	162	-0.33	0.150960	21.63	1.475	1.232	2.605	2,473	2,009
15.13	15.12	343	102	-0.33	0.1511/9	21.00	1.474	4,004	2.003	2,474	2.000
15.20	15.13	314	162	-0.33	0.151899	21.67	1.477	1.334	2.811	2,497	2.073
15.04	15.25	345	101	-0.39	0.152018	21.00	1,400	1,237	2.010	2,400	2.0011
10.43	15.44	040	1.01	.0.24	0.152110	24.72	1,470	1 240	2,012	2,472	3,030
15.84	15.41	343	101	-0.39	0.154118	21.73	1.491	1.340	2.010	2,470	2.079
15 58	15.57	318	161	.0.34	0.155697	21 77	1489	1 343	2.832	2.401	2.087
15.00	15.00	24.0	161	-0.25	0.156496	21.70	1,803	1 946	3,939	2,002	2 092
15.74	15.78	320	160	-0.35	0.157286	21.81	1,495	1 348	2 844	2,496	2 096
15.81	15.80	320	160	.0.35	0.157995	21.83	1,494	1 348	2 843	2,894	2 096
15.90	15.89	322	160	-0.85	0.158865	21.85	1.502	1,351	2,853	2,502	2,102

•	Dedatas	Californi	Beneficie	Incremento		Åres	Infrarto	13	11	11	Enfrances
Deformació	Unitaria	Carea	de poros	deporos	Deform.	Correction	Desvindor	Electivo	Electivo	Total	Promedio
n (mm)	*	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
15.97	15.96	323	160	.035	0 159574	21.87	1 505	1 354	2,860	2 506	2 107
16.05	16.04	323	159	-0.36	0.160364	21.89	1.504	1.357	2.861	2.504	2.109
16.13	16.12	323	159	-0.36	0.161233	21.91	1 503	1 357	2.859	2 503	2 108
16.20	16.19	323	159	-0.36	0.161943	21.93	1 501	1 360	2 861	2 501	2 110
16.28	16.27	324	159	.036	0.162732	21.05	1 505	1 362	2.867	2 505	2.115
16.36	16.35	325	159	-0.36	0.163522	21.97	1 508	1 362	2 870	2 508	2 116
16.43	16.42	326	159	-0.37	0.164241	21.99	1.511	1.365	2.876	2.511	2.121
16.51	16.50	327	159	-0.37	0.165081	22.61	1 514	1 365	2 879	2.514	2 1 2 2
16.59	16.58	328	158	-0.37	0.165751	22.03	1518	1368	2.886	2.518	2 1 2 7
10.00	16.65	226	159	-0.37	0.100030	22.05	1.531	1.971	3,893	2,525	3.494
16.73	16.72	32.5	158	-0.37	0.167190	22.67	1 520	1 373	2,893	2 520	2 1 3 3
16.81	16.80	329	158	-0.37	0.167979	22.09	1518	1 373	2,892	2.518	2 1 3 3
10.00	16.97	220	157	-0.28	0.100000	22.11	1 517	1 976	3 992	2,517	3.495
16.95	16.94	32.5	157	-0.38	0.169408	22.13	1516	1376	2,892	2.516	2 1 9 4
52.00	12.04	32.2	467	-0.30	0.100400	33.45	1.510	4.970	3,000	2,510	0.404
17.02	17.01	320	157	-0.30	0.170120	22.13	1.510	1.379	2.002	2.510	2.139
17.10	17.00	327	157	-0.20	0.171627	22.13	1.504	1.373	1,000	2,004	2.131
47.57	47.54	347	400	0.00	0.171007	22.24	4.000	4.000	3,000	5.004	5,452
17.23	17.24	327	157	-0.30	0.172927	22.21	1.501	1,305	2,000	2,501	2.133
17.33	17.31	327	157	-0.30	0.173140	22.25	1.500	1.365	1.009	2,300	2.134
17,40	17.35	347	1.57	-0.30	0.173330	22.25	1.400	1.365	2.000	2,490	2.134
17.40	17.67	327	150	-0.39	0.175645	22.23	1.605	1.30/	2,009	2,407	2.130
47.29	17.24	363	120	-9.29	0.170940	24.42	1.303	1.330	2.000	2.303	6.146
17.53	17.62	330	156	-0.39	0.176234	22.31	1.508	1.390	2,898	2.508	2.144
17.71	17.70	331	120	-0.39	0.170304	22.33	1.511	1.390	2.301	2.511	2.140
0.0	11.11	332	130	-0.30	0.1///43	11.30	1.514	1.333	2.307	2.314	2.150
17.85	17.85	333	156	-0.40	0.178533	22.37	1.517	1.396	2.913	2.517	2.154
17.94	17.92	334	155	-0.40	0.179242	22.39	1.520	1.399	2.919	2.520	2.159
18.01	18.00	336	155	-0.40	0.180032	22.41	1.528	1.399	2.927	2.528	2.163
18.09	18.08	335	155	-0.40	0.180822	22.44	1.527	1.399	2.925	2.527	2.162
18.17	18.15	337	155	-0.40	0.181541	22.46	1.530	1.401	2.931	2.530	2.165
18.24	18.23	338	155	-0.40	0.182331	22.48	1.533	1.404	2.937	2.533	2.171
18.32	18.31	339	155	-0.40	0.183120	22.50	1.536	1.404	2.940	2.536	2.172
18.40	18.38	339	155	-0.40	0.183840	22.52	1.535	1.404	2.939	2.535	2.171
18.47	18.46	340	154	-0.41	0.184629	22.54	1.538	1.407	2.944	2.538	2.176
18.55	18.53	341	154	-0.41	0.185349	22.56	1.541	1.410	2.950	2.541	2.180
18.63	18.61	342	154	-0.41	0.186138	22.58	1.544	1.410	2.953	2.544	2.182
18.70	18.69	342	154	-0.41	0.186858	22.60	1.542	1.412	2.955	2.542	2.184
18.78	18.76	343	154	-0.41	0.187647	22.62	1.545	1.412	2.958	2.545	2.185
18.85	18.84	344	154	-0.41	0.188367	22.64	1.549	1.412	2.961	2.549	2.187
18.93	18.92	344	154	-0.42	0.189157	22.67	1.547	1.415	2.962	2.547	2.189
19.00	18.99	345	154	-0.42	0.189876	22.69	1.550	1.415	2.965	2.550	2.190
19.07	19.06	345	153	-0.42	0.190586	22.71	1.549	1.418	2.967	2.549	2.192
19.15	19.14	345	153	-0.42	0.191375	22.73	1.547	1.418	2.965	2.547	2.192
19.22	19.21	346	153	-0.42	0.192095	22.75	1.550	1.421	2.971	2.550	2.196
19.29	19.28	347	153	-0.42	0.192814	22.77	1.553	1.421	2.974	2.553	2.198
19.37	19.35	347	153	-0.42	0.193534	22.79	1.552	1.424	2.976	2.552	2.200
19.44	19.43	347	153	-0.42	0.194323	22.81	1.551	1.424	2.974	2.551	2.199
19.52	19.50	348	153	-0.42	0.195043	22.83	1.554	1.424	2.977	2.554	2.200
19.59	19.58	347	152	-0.43	0.195763	22.85	1.548	1.426	2.974	2.548	2.200
19.66	19.65	347	152	-0.43	0.196472	22.87	1.546	1.426	2.973	2.546	2.200
19.73	19.72	347	152	-0.43	0.197192	22.89	1.545	1.429	2.974	2.545	2.202
19.80	19.79	347	152	-0.43	0.197911	22.91	1.544	1.429	2.973	2.544	2.201

	Deform.	Celda	Presión	Incremento		Åres	Esfuerzo	13	61	=1	Esfuerzo
Deformació	Unitaria	Carga	de poros	deporos	Deform.	Corregida	Develop	Efectivo	Efectivo	Total	Promedio
n (mm)	<b>S</b>	N	(kPa)	(kgl/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(hgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kg(/cm²)	(kel/cm <sup>2</sup> )
19.88	19.86	347	152	-0.43	0.198631	22.94	1.542	1.432	2.974	2.542	2.203
19.95	19.94	347	152	-0.43	0.199350	22.96	1.541	1.432	2.973	2.541	2.202
-			<u> </u>	Etar	oa de falla te	ercer increi	mento		<u> </u>		
	Dedagen	Colds.	Beneficie	Incremento		åren.	Estuarto	12	<u>.</u>	- 1	Enforcem
Deformació	Deliveria.	Carrie	de seren e	departur	Deform.	Correction	Dendedor	Harther	Harthen	Total	Promedia
n (mm)	S	N	(kPa)	(bert from 2)	Unitaria	(cm <sup>2</sup> )	Bert Leman	(bert low?)	(hard (area 2)	(bert from 2)	Burtley 2
0.00	0.00			(server )	0.000000	from 1	Coloren 1	And American A	a see	felligen h	Second Press
0.00	0.00	0	235	0.00	0.000000	17.89	0.000	2,000	2.000	2.000	2,000
0.07	0.07	0	2.39	0.04	0.000709	17.30	0.034	1.704	1.770	2,004	1.961
0.14	0.14	30	243	0.08	0.001358	17.91	0.171	1.919	2,090	2.171	2,005
0.21	0.21	42	247	0.12	0.002077	17.52	0.239	1.877	2.116	2.259	1.997
0.28	0.28	50	251	0.16	0.002795	17.94	0.284	1.844	2.128	2.284	1.986
0.35	0.35	56	254	0.19	0.003514	17.95	0.318	1.810	2.128	2.318	1.969
0.43	0.43	61	257	0.22	0.004303	17.96	0.346	1.783	2.129	2.346	1.955
0.50	0.50	66	259	0.24	0.005012	17.58	0.374	1.758	2.132	2.374	1.945
0.58	0.58	70	261	0.26	0.005800	17.99	0.397	1.738	2.135	2.397	1.936
0.65	0.65	75	263	0.28	0.006519	18.00	0.425	1.719	2.143	2.425	1.931
0.73	0.72	79	265	0.30	0.007238	18.02	0.447	1.699	2.146	2.447	1.922
0.80	0.80	83	266	0.31	0.008027	18.03	0.469	1.685	2.154	2.469	1.920
0.88	0.87	88	268	0.33	0.008745	18.04	0.497	1.671	2.168	2.497	1.920
0.95	0.95	91	269	0.34	0.009464	18.06	0.514	1.657	2.171	2.514	1.914
1.03	1.03	95	270	0.35	0.010253	18.07	0.536	1.646	2.182	2.536	1.914
1.10	1.10	- 99	271	0.37	0.010972	18.09	0.558	1.635	2.193	2.558	1.914
1.19	1.18	103	273	0.38	0.011830	18.10	0.580	1.624	2.204	2.580	1.914
1.26	1.25	106	273	0.38	0.012549	18.11	0.597	1.618	2.215	2.597	1.916
1.34	1.33	109	274	0.39	0.013338	18.13	0.613	1.610	2.223	2.613	1.916
1.42	1.41	112	275	0.40	0.014126	18.14	0.629	1.601	2.231	2.629	1.916
1.49	1.49	115	275	0.40	0.014915	18.16	0.646	1.596	2.241	2.646	1.919
1.57	1.57	118	276	0.41	0.015704	18.17	0.662	1.590	2.252	2.662	1.921
1.65	1.65	121	276	0.42	0.016493	18.19	0.678	1.585	2.263	2.678	1.924
1.72	1.72	124	277	0.42	0.017211	18.20	0.695	1.579	2.274	2.695	1.926
1.80	1.80	127	278	0.43	0.018000	18.21	0.711	1.574	2.284	2.711	1.929
1.87	1.87	129	278	0.43	0.018709	18.23	0.721	1.571	2.292	2.721	1.931
1.95	1.95	132	278	0.43	0.019498	18.24	0.738	1.568	2.306	2.738	1.937
2.03	2.03	134	278	0.43	0.020286	18.26	0.748	1.565	2.313	2.748	1.939
2.10	2.10	137	279	0.44	0.021005	18.27	0.764	1.560	2.324	2.764	1.942
2.18	2.17	139	279	0.44	0.021724	18.28	0.775	1.560	2.335	2.775	1.947
2.26	2.25	141	279	0.44	0.022512	18.30	0.785	1.557	2.342	2.785	1.950
2.33	2.32	144	280	0.45	0.023231	18.31	0.802	1.554	2.356	2.802	1.955
2.41	2.40	146	280	0.45	0.024020	18.33	0.812	1.554	2.366	2.812	1.960
2.48	2.47	149	280	0.45	0.024739	18.34	0.828	1.549	2.377	2.828	1.963
2.56	2.55	151	280	0.45	0.025527	18.36	0.839	1.551	2.390	2.839	1.971
2.64	2.63	153	280	0.45	0.026316	18.37	0.849	1.551	2.400	2.849	1.976
2.71	2.70	156	280	0.45	0.027035	18.38	0.865	1.551	2.416	2.865	1.984
2,79	2,78	157	280	0,45	0.027824	18.40	0.870	1.549	2,418	2,870	1,983
2.86	2.85	160	280	0.45	0.028532	18.41	0.886	1.549	2,434	2.886	1.991
2.94	2.93	162	280	0.45	0.029321	18.43	0.896	1.549	2,445	2.896	1.997
3.02	3.01	164	280	0.45	0.030110	18.44	0.906	1.549	2,455	2.906	2,002
3.10	3.09	166	280	0.45	0.030899	18.46	0.917	1.549	2,465	2.917	2,007
3.17	3.17	168	280	0,45	0.031687	18.47	0.927	1.549	2,476	2.927	2,012
3.25	3.24	171	280	0.45	0.032406	18.49	0.943	1.551	2,494	2,943	2,023

3.32         3.31         174         280         0.45         0.033125         18.50         0.959         1.551         2.510         2.959           3.40         3.39         177         280         0.45         0.033913         18.51         0.975         1.551         2.526         2.975           3.47         3.46         181         280         0.45         0.034632         18.53         0.996         1.551         2.547         2.996           3.54         3.54         183         280         0.45         0.035351         18.53         0.996         1.551         2.547         2.996           3.62         3.61         186         280         0.45         0.035351         18.54         1.006         1.554         2.560         3.006           3.62         3.61         186         280         0.45         0.036140         18.56         1.022         1.554         2.576         3.022           3.69         3.69         189         280         0.45         0.036859         18.57         1.037         1.554         2.591         3.037           3.76         3.76         192         279         0.44         0.037567         18.59	2.031 2.039 2.049 2.057 2.065 2.073 2.083 2.097 2.102 2.110 2.117 2.117
3.40         3.39         177         280         0.45         0.033913         18.51         0.975         1.551         2.526         2.975           3.47         3.46         181         280         0.45         0.034632         18.53         0.995         1.551         2.526         2.975           3.47         3.46         181         280         0.45         0.034632         18.53         0.996         1.551         2.547         2.996           3.54         3.54         183         280         0.45         0.035351         18.54         1.006         1.554         2.560         3.006           3.62         3.61         186         280         0.45         0.036140         18.56         1.022         1.554         2.576         3.022           3.69         3.69         189         280         0.45         0.036859         18.57         1.037         1.554         2.591         3.037           3.76         3.76         192         279         0.44         0.037567         18.59         1.053         1.557         2.610         3.053           3.84         3.83         196         279         0.44         0.038286         18.60	2.039 2.049 2.057 2.065 2.073 2.083 2.097 2.102 2.110 2.117 2.117
3.47         3.46         181         280         0.45         0.034632         18.53         0.996         1.551         2.547         2.996           3.54         3.54         183         280         0.45         0.035351         18.53         1.096         1.551         2.547         2.996           3.54         3.54         183         280         0.45         0.035351         18.54         1.006         1.554         2.560         3.006           3.62         3.61         186         280         0.45         0.036140         18.56         1.022         1.554         2.576         3.022           3.69         3.69         189         280         0.45         0.036859         18.57         1.037         1.554         2.591         3.037           3.76         3.76         192         279         0.44         0.037567         18.59         1.053         1.557         2.610         3.053           3.84         3.83         196         279         0.44         0.038286         18.60         1.074         1.560         2.634         3.074	2.049 2.057 2.065 2.073 2.083 2.097 2.102 2.110 2.117 2.122
3.54         3.54         183         280         0.45         0.035351         18.54         1.006         1.554         2.560         3.006           3.62         3.61         186         280         0.45         0.036140         18.56         1.022         1.554         2.576         3.022           3.69         3.69         189         280         0.45         0.036859         18.57         1.037         1.554         2.591         3.037           3.76         3.76         192         279         0.44         0.037567         18.59         1.053         1.557         2.610         3.053           3.84         3.83         196         279         0.44         0.038286         18.60         1.074         1.560         2.634         3.074	2.057 2.065 2.073 2.083 2.097 2.102 2.110 2.117 2.117
3.62         3.61         186         280         0.45         0.036140         18.56         1.022         1.554         2.576         3.022           3.69         3.69         189         280         0.45         0.036859         18.57         1.037         1.554         2.576         3.037           3.76         3.76         192         279         0.44         0.037567         18.59         1.053         1.557         2.610         3.053           3.84         3.83         196         279         0.44         0.038286         18.60         1.074         1.560         2.634         3.074	2.065 2.073 2.083 2.097 2.102 2.110 2.110 2.117
3.69         3.69         189         280         0.45         0.036859         18.57         1.037         1.554         2.591         3.037           3.76         3.76         192         279         0.44         0.037567         18.59         1.053         1.557         2.610         3.053           3.84         3.83         196         279         0.44         0.038286         18.60         1.074         1.560         2.634         3.074	2.073 2.083 2.097 2.102 2.110 2.117
3.76 3.76 192 279 0.44 0.037567 18.59 1.053 1.557 2.610 3.053 3.84 3.83 196 279 0.44 0.038286 18.60 1.074 1.560 2.634 3.074	2.083 2.097 2.102 2.110 2.117
3.84 3.83 195 279 0.44 0.038286 18.60 1.074 1.560 2.634 3.074	2.097 2.102 2.110 2.117 2.127
	2.102 2.110 2.117
3.91 3.90 198 279 0.44 0.039005 18.61 1.084 1.560 2.644 3.084	2.110
3.98 3.97 201 279 0.44 0.039724 18.63 1.100 1.560 2.660 3.100	2.117
4.05 4.04 203 279 0.44 0.040443 18.64 1.110 1.562 2.673 3.110	13 A 15 B
4.12 4.11 205 279 0.44 0.041082 18.65 1.120 1.562 2.683 3.120	4.1.4.3
4.19 4.18 207 278 0.43 0.041800 18.67 1.130 1.565 2.696 3.130	2.130
4.26 4.25 210 278 0.43 0.042519 18.68 1.146 1.565 2.711 3.146	2.138
4.34 4.33 210 278 0.43 0.043308 18.70 1.145 1.568 2.713 3.145	2,140
4.41 4.40 211 278 0.43 0.044027 18.71 1.150 1.568 2.718 3.150	2.143
4.49 4.48 212 278 0.43 0.044815 18.73 1.154 1.571 2.725 3.154	2.148
4.56 4.55 213 278 0.43 0.045534 18.74 1.159 1.571 2.729 3.159	2.150
4.64 4.63 215 278 0.43 0.046323 18.76 1.169 1.571 2.739 3.169	2,155
4.71 4.70 216 278 0.43 0.047042 18.77 1.173 1.574 2.747 3.173	2.160
4.78 4.78 217 277 0.42 0.047750 18.78 1.178 1.576 2.754 3.178	2,165
4.86 4.85 218 277 0.42 0.048539 18.80 1.182 1.576 2.758 3.182	2.167
4.93 4.93 221 277 0.42 0.049258 18.81 1.197 1.579 2.777 3.197	2,178
5.01 5.00 224 277 0.42 0.049977 18.83 1.213 1.582 2.795 3.213	2,188
5.08 5.07 226 277 0.42 0.050696 18.84 1.223 1.582 2.805 3.223	2.193
5.15 5.14 228 276 0.42 0.051414 18.86 1.233 1.585 2.817 3.233	2,201
5.22 5.21 231 276 0.42 0.052133 18.87 1.248 1.585 2.833 3.248	2,209
529 528 233 276 0.41 0.052772 18.88 1.258 1.588 2.845 3.258	2,216
5.36 5.35 235 276 0.41 0.053491 18.90 1.268 1.590 2.858 3.268	2,224
5.44 5.43 237 276 0.41 0.054280 18.91 1.277 1.590 2.868 3.277	2,229
5.51 5.50 240 276 0.41 0.054998 18.93 1.293 1.593 2.886 3.293	2,239
5.58 5.57 242 275 0.40 0.055717 18.94 1.302 1.596 2.898 3.302	2.247
5.66 5.65 244 275 0.40 0.056506 18.96 1.312 1.596 2.908 3.312	2,252
5.73 5.72 246 275 0.40 0.057225 18.97 1.322 1.599 2.920 3.322	2,260
5.81 5.80 248 275 0.40 0.058013 18.99 1.331 1.599 2.930 3.331	2.264
5.88 5.87 250 275 0.40 0.058722 19.00 1.341 1.599 2.940 3.341	2,269
5.97 5.96 251 275 0.40 0.059591 19.02 1.345 1.601 2.947 3.345	2.274
6.05 6.04 253 275 0.40 0.060379 19.04 1.355 1.604 2.959 3.355	2,282
6.12 6.11 255 275 0.40 0.061088 19.05 1.364 1.604 2.969 3.364	2,286
6.20 6.19 256 274 0.39 0.061877 19.07 1.369 1.607 2.976 3.369	2.291
6.29 6.27 257 274 0.39 0.062745 19.08 1.373 1.607 2.980 3.373	2,293
6.36 6.35 258 274 0.39 0.063534 19.10 1.377 1.610 2.987 3.377	2,298
6.44 6.43 259 274 0.39 0.064323 19.12 1.381 1.613 2.994 3.381	2.303
6.52 6.51 260 274 0.39 0.065111 19.13 1.385 1.613 2.998 3.385	2.305
6.59 6.58 261 273 0.38 0.065830 19.15 1.390 1.615 3.005 3.390	2.310
6.68 6.67 262 273 0.38 0.066689 19.17 1.394 1.618 3.012 3.394	2.315
6.75 6.74 263 273 0.38 0.067408 19.18 1.398 1.618 3.016 3.398	2.317
6.83 6.82 264 273 0.38 0.068196 19.20 1.402 1.621 3.023 3.402	2.322
6.91 6.90 265 273 0.38 0.068985 19.21 1.406 1.624 3.030 3.406	2.327
6.99 6.98 266 272 0.37 0.069774 19.23 1.410 1.627 3.037 3.410	2.332
7.07 7.06 266 272 0.37 0.070562 19.24 1.409 1.627 3.035 3.409	2.331
7.14 7.13 267 273 0.38 0.071271 19.26 1.413 1.624 3.037 3.413	

	Deform.	Celda	Presión	Incremento		Åres	Esfuerzo	13	11	11	Education
Deformació	Unitaria	Carro	de poros	deporos	Deform.	Correction	Dervindor	Electivo	Dectivo	Total	Promedio
n (mm)	×	N	0.251	(ket/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kat/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(ket/cm <sup>2</sup> )
7.94	7.30	368	373	0.27	0.071990	10.37	1.417	1.637	2.044	9.417	3 2 2 2
7.29	7.28	268	272	0.37	0.072779	19.29	1.416	1.627	3.043	3.416	2 995
7 37	7.86	267	272	0.37	0.073567	19.31	1.410	1.637	3,036	9,410	2 331
7.44	7.43	268	272	0.37	0.074286	19.32	1 4 1 4	1.627	3,040	3.414	2 222
7.63	7.54	369	373	0.37	0.075075	10.24	1.410	1.630	2,043	0.410	2 2 2 2 2
7.52	7.51	200	272	0.37	0.075075	10.35	1.415	1 4 2 3 3	3,042	3,413	2.330
7.67	7.66	270	271	0.37	0.076582	19.37	1.421	1.635	3,056	3.421	2 845
7.74	7.72	370	3.74	0.37	0.077301	10.20	1.430	1 202	3,000	3,430	2.245
7.82	7.81	271	271	0.35	0.078090	19.40	1.434	1.638	3,061	9,494	2 350
7.02	7.00	373	324	0.36	0.079909	10.43	1.400	1 630	0.000	0.400	2.200
7.65	7.00	272	271	0.36	0.070003	19.42	1.420	1.638	3,065	3.420	2,352
8.04	8.03	273	271	0.36	0.080306	19.45	1.431	1.640	3,071	3.431	2 356
8.13	8.11	372	3.74	0.36	0.091005	10.47	1.420	1.640	2,070	3.490	1 300
8.20	8.19	273	271	0.36	0.081884	19.48	1.428	1.643	3,072	9,428	2 357
9.39	8.37	372	3.74	0.36	0.093693	10.50	1.437	1 640	2,070	0.407	2.257
9.20	0.27	27.2	271	0.36	0.002002	10.50	1.421	1.040	3,070	0.404	2.337
8.43	8.42	277	220	0.35	0.084180	19.53	1.446	1.646	3,092	9.446	2 369
0.40	0.40	326	2/20	0.00	0.004200	10.55	1.455	1.640	0.404	D ACC	3.332
0.50	0.43	272	270	0.35	0.064693	19.55	1.455	1,049	3.109	3,400	2.270
8.66	8.65	281	270	0.35	0.085476	19.59	1.459	1.650	3.109	3,403	2.270
0.00	0.00	201	2/20	0.00	0.0000000	10.00	1.463	4 600	0.440	0.400	1.000
0.73	0.72	201	270	0.35	0.067195	10.00	1.402	1,002	3.113	3.402	2.202
0.01	0.00	202	270	0.35	0.06/363	13.61	1.471	1.004	3.125	3.471	2.300
8.89	8.87	284	269	0.34	0.088/02	19.63	1.475	1.657	3.132	3.475	2.395
0.30	0.39	200	200	0.34	0.069421	13.09	1.473	1.007	3.130	3.4/3	2.337
9.05	5.01	200	200	0.34	0.090240	13.00	1.495	1.000	3.133	3,493	2,407
9.10	9.08	289	269	0.34	0.090849	19.67	1.497	1.660	3.157	3.497	2,409
9.17	3.16	291	209	0.34	0.091567	19.69	1.507	1.003	3.109	3.307	2.410
9.24	9.22	293	268	0.33	0.092216	19.70	1.516	1.665	3.181	3.516	2.423
9.32	9.30	29.5	268	0.33	0.095005	19.72	1.514	1.558	3.183	3.514	2.425
9.39	3.37	239	200	0.33	0.003724	13.74	1.510	1.000	3.107	3.510	2,420
9.46	3.44	29.5	268	0.33	0.094433	19.75	1.512	1.6/1	3.183	3.512	2.427
9.54	3.52	234	200	0.33	0.095231	19.77	1.516	1.074	3.190	3.510	2,432
9.61	3.53	294	268	0.33	0.095940	19.79	1.515	1.674	3.189	3.515	2.431
9.68	3.57	294	267	0.32	0.095659	19.80	1.514	1.677	3.190	3.514	2,433
9.70	3.74	239	207	0.32	0.007446	19.62	1.512	1.079	3.132	3.512	2,430
9.83	3.82	254	267	0.32	0.098165	19.83	1.511	1.679	3.191	3.511	2,435
9.91	3.83	230	207	0.32	0.0300034	13.65	1.520	1.002	3.202	3.520	2,442
9.98	3.97	297	266	0.31	0.099674	19.87	1.524	1.685	3.209	3.524	2.447
10.05	10.04	299	200	0.31	0.100393	19.60	1.535	1,000	3.210	3.333	2,432
10.15	10.11	301	200	0.31	0.101111	13.30	1.542	1.000	3.230	3.542	2,409
10.20	10.18	303	266	0.31	0.101820	19.91	1.551	1.588	3.239	3.551	2,463
20.27	10.25	304	200	0.31	0.102555	19.93	1.335	1.691	3.295	3.335	2,468
10.34	10.33	306	266	0.31	0.103258	19.95	1.554	1.693	3.257	3.564	2.475
20.42 40.40	10.40	308	200	0.30	0.103977	13.35	1.373	1.030	3.209	3.3/3	2.483
20.43	10.47	303	200	0.30	0.104695	13.38	1.377	1.009	3.276	3.5/7	2.467
10.57	10.55	310	265	0.30	0.105484	20.00	1.580	1.699	3.279	3.580	2.489
10.64	10.62	311	265	0.30	0.106193	20.01	1.584	1.702	3.286	3.584	2,494
20.72	10.70	313	209	0.30	0.100362	20.05	1.393	1.705	3.236	3.393	2.301
10.79	10.77	314	204	0.30	0.107700	20.05	1.597	1.705	3.301	3.597	2.503
20.87	10.85	315	2009	0.29	0.108485	20.06	1.600	1.707	3.308	3.600	2.508
10.95	10.93	315	264	0.29	0.109278	20.08	1.604	1.710	3.314	3.604	2.512
11.03	11.01	317	204	0.29	0.110067	20.10	1.608	1.713	3.521	3,608	2.517

				In contract of the					- 1		fater and
Deformació	Deform.	Celds	Presión	incremento	Deform.	Area Consultation	Cartuerao	No.		Tetal	Circerto
n (mm)	S.	N	(k-Pa)	(hellow <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(ket/cm <sup>2</sup> )	(kat/cm <sup>2</sup> )	(kat/cm <sup>3</sup> )	(lat/cm <sup>2</sup> )	(hallow <sup>2</sup> )
	44.00	0.00	(access)	(vg)/sm /	0.00000	part y	A COM	4.744	0.007	1.000	All the second
11.10	11.00	370	200	0.28	0.111674	20.12	1.611	1.710	3.327	3.011	2.221
11.10	11.10	200	200	0.20	0.111574	20.15	1.020	1.710	3,330	0.000	2.520
11.20	11.29	321	200	0.28	0.112363	20.15	1.629	1.719	3.342	3.029	2.530
11.33	11.52	221	200	0.20	0.115151	20.17	1.022	4.724	3.344	3,922	2.002
11.52	11.40	321	200	0.28	0.114010	20.19	1.021	1.721	3.342	3.021	2,332
11.50	11.90	322	200	0.20	0.116617	20.21	1.029	1.729	3.349	3,029	2.000
11.64	11.63	999	262	0.37	0.116336	20.24	1.637	1 720	9.956	9,637	3 643
11.04	11.02	323	202	0.27	0.112095	20.29	1.027	1.730	3.330	3.527	2.343
11.01	11 70	0.04	262	0.37	0.117004	20.20	1 6 3 6	1 799	0.021	0.000	3 647
11.01	11.87	924	262	0.27	0.118672	20.20	1.627	1.732	3,391	3.623	2.347
11.97	11.95	9.95	261	0.26	0.119461	20.30	1.631	1 735	3,366	3,631	2 551
12.05	12.02	924	261	0.26	0.120250	20.33	1 634	1738	3,362	9,694	2 550
12.00	12.10	925	261	0.26	0.120968	20.35	1.628	1.741	3.392	3,628	2 5 5 5
12.20	12.10	200	361	0.36	0.101767	20.27	1 6 3 7	1 741	9.947	9,697	9 66 4
12.27	12.25	325	261	0.26	0.122476	20.38	1.625	1 744	3,369	3.625	2 556
12.33	12.31	325	260	0.25	0.123125	20.40	1.624	1 746	3 370	3.624	2 558
12.41	12.39	925	260	0.25	0.123913	20.42	1.623	1749	3 372	3,623	2 560
12.49	12.47	325	260	0.25	0.124202	20.44	1.621	1749	3 370	3.621	2 560
12.56	12.54	325	260	0.25	0.125411	20.45	1.620	1,752	3.372	3.620	2,562
12.63	12.61	925	260	0.25	0.126130	20.47	1.619	1 752	3 370	3,619	2 561
12.71	12.69	325	259	0.25	0.126918	20.49	1.617	1755	3 372	3.617	2 563
12.79	12.76	925	259	0.24	0.127637	20.50	1.616	1758	3 373	3,616	2 565
12.86	12.84	326	259	0.24	0.128426	20.52	1 619	1758	3 377	3,619	2 567
12.94	12.92	326	259	0.24	0.129215	20.54	1.618	1,760	3,378	3,618	2,569
13.02	12.99	927	259	0.24	0.129933	20.56	1.621	1 763	3 385	3.621	2 574
13.09	13.07	326	259	0.24	0.130722	20.58	1.615	1,763	3,378	3.615	2,571
13.17	13.15	327	258	0.23	0.131511	20.60	1.618	1.766	3 384	3,618	2 575
13.25	13.23	326	258	0.23	0.132300	20.61	1.612	1,769	3,381	3.612	2,575
13.33	13.31	326	258	0.23	0.133088	20.63	1.611	1,769	3,379	3.611	2,574
13.40	13.38	326	258	0.23	0.133807	20.65	1.609	1,771	3,381	3,609	2,576
13.48	13.46	328	258	0.23	0.134596	20.67	1.618	1,771	3,389	3.618	2,580
13.56	13.54	329	258	0.23	0.135384	20.69	1.621	1,774	3,395	3.621	2,585
13.63	13.61	330	257	0.22	0.136103	20.70	1.625	1.777	3,402	3.625	2.589
13.71	13.69	331	257	0.22	0.136892	20.72	1.628	1.777	3.405	3.628	2.591
13.78	13.76	333	257	0.22	0.137611	20.74	1.637	1,780	3,416	3.637	2,598
13.86	13.83	335	257	0.22	0.138319	20.76	1.645	1.783	3.428	3.645	2.605
13.93	13.91	335	257	0.22	0.139108	20.78	1.644	1.783	3,426	3,644	2,604
14.01	13.98	336	256	0.21	0.139827	20.79	1.647	1.785	3.432	3.647	2.609
14.08	14.05	338	256	0.21	0.140546	20.81	1.656	1.785	3.441	3.656	2.613
14.15	14.13	340	256	0.21	0.141265	20.83	1.664	1.788	3,452	3,664	2.620
14.22	14.20	342	256	0.21	0.141983	20.85	1.672	1.791	3.463	3.672	2.627
14.29	14.26	343	256	0.21	0.142622	20.86	1.676	1.791	3.467	3.676	2.629
14.37	14.34	343	256	0.21	0.143411	20.88	1.674	1.794	3,468	3.674	2.631
14.44	14.42	343	255	0.20	0.144200	20.90	1.673	1.797	3.469	3.673	2.633
14.52	14.49	344	255	0.20	0.144918	20.92	1.676	1.797	3.473	3.676	2.635
14.60	14.57	345	255	0.20	0.145707	20.94	1.680	1.799	3,479	3.680	2.639
14.67	14.64	345	255	0.20	0.146426	20.96	1.678	1.799	3.478	3.678	2.638
14.75	14.72	345	255	0.20	0.147215	20.97	1.677	1.802	3,479	3.677	2.640
14.82	14.79	345	254	0.20	0.147933	20.99	1.675	1.805	3.480	3.675	2.643
14.89	14.87	347	254	0.20	0.148652	21.01	1.684	1.805	3,488	3.684	2.647
14.96	14.94	347	254	0.19	0.149371	21.03	1.682	1.808	3,490	3.682	2.649

	Deform.	Celda	Presión	Incremento		Åres	Esfuerzo	13	11	11	Esfuerzo
Deformació	Unitaria	Carso	de poros	deporos	Deform.	Correctide	Deviador	Efectivo	Efectivo	Total	Promedio
n (mm)	*	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )
15.04	15.02	947	254	0.19	0.150160	21.05	1.681	1 808	3.488	3.681	2.648
15.12	15.09	346	254	0.19	0.150948	21.07	1 674	1 810	3.485	3.674	2 648
15.19	15.17	947	254	0.19	0.151657	21.08	1.678	1.810	9.488	3.678	2.649
15.27	15.24	949	254	0.19	0.152446	21.10	1.686	1.813	3,499	3,686	2.656
15.34	15.24	343	204	0.10	0.152005	25.52	1 604	1.010	3,433	3,000	2,660
15.41	15.51	351	259	0.19	0.153005	21.14	1.697	1.013	3,507	3,694	2,000
15 48	15.45	958	258	0.18	0.154532	21.16	1 201	1.819	3.520	3 201	2.669
10.00	10.00	326	353	0.19	0.100002	21.12	1 309	1 910	9 5 7 9	3 700	3,673
15.55	15.55	300	200	0.19	0.155251	21.12	1 713	1,019	3.528	3,703	2,073
10.00	15.67	007	900	0.10	0.130300	24.24	4 744	4,000	0.002	0.74.6	3,000
15.03	15.07	307	233	0.10	0.1300/3	21.21	1.710	1.022	3.537	3.710	2,000
15.77	15.75	300	200	0.10	0.157400	21.23	1,713	1.022	3.341	3.713	2.001
15.00	10.00	300	2.00	0.10	0.130130	24.20	4.756	4,007	0.000	0.700	2,000
15.92	15.90	301	222	0.17	0.156975	21.27	1.730	1.027	3.337	3.730	2,032
15.00	15.90	302	232	0.17	0.139764	21.25	1.733	1.630	3.503	3./33	2,097
15.08	16.05	362	252	0.17	0.160483	21.31	1.732	1.830	3.562	3.732	2,696
16.15	16.15	364	252	0.17	0.161271	21.55	1.740	1.830	3.570	3.740	2.700
15.2.5	16.21	364	252	0.17	0.162060	21.35	1.738	1.833	3.571	3.738	2.702
16.31	16.28	365	251	0.16	0.162849	21.37	1.741	1.836	3.577	3.741	2.706
16.39	16.36	366	251	0.16	0.163637	21.39	1.744	1.836	3.580	3.744	2.708
15.45	16.44	355	251	0.16	0.164356	21.40	1.743	1.838	3.581	3.743	2.710
16.55	16.52	366	251	0.16	0.165215	21.43	1.741	1.838	3.580	3.741	2.709
16.63	16.60	366	251	0.16	0.166003	21.45	1.740	1.841	3.581	3.740	2.711
16.71	16.68	366	251	0.16	0.166792	21.47	1.738	1.841	3.579	3.738	2.710
16.78	16.75	367	251	0.16	0.167511	21.49	1.741	1.844	3.585	3.741	2.715
16.86	16.83	367	251	0.16	0.168300	21.51	1.740	1.844	3.583	3.740	2.714
16.94	16.91	367	250	0.15	0.169088	21.53	1.738	1.847	3.585	3.738	2.716
17.02	16.99	367	250	0.15	0.169877	21.55	1.736	1.850	3.586	3.736	2.718
17.10	17.07	367	250	0.15	0.170666	21.57	1.735	1.850	3.584	3.735	2.717
17.17	17.14	367	250	0.15	0.171384	21.59	1.733	1.850	3.583	3.733	2.716
17.25	17.22	368	250	0.15	0.172173	21.61	1.736	1.852	3.588	3.736	2.720
17.32	17.29	368	250	0.15	0.172892	21.63	1.735	1.852	3.587	3.735	2.720
17.40	17.37	367	249	0.14	0.173681	21.65	1.728	1.855	3.583	3.728	2.719
17.47	17.44	367	249	0.14	0.174389	21.67	1.727	1.858	3.585	3.727	2.721
17.55	17.52	366	249	0.14	0.175178	21.69	1.720	1.858	3.578	3.720	2.718
17.62	17.59	366	249	0.14	0.175897	21.70	1.719	1.861	3.580	3.719	2.720
17.69	17.66	366	249	0.14	0.176616	21.72	1.717	1.861	3.578	3.717	2.719
17.77	17.74	366	249	0.14	0.177404	21.74	1.716	1.863	3.579	3.716	2.721
17.85	17.82	366	249	0.14	0.178193	21.77	1.714	1.863	3.578	3.714	2.721
17.91	17.88	367	248	0.13	0.178842	21.78	1.717	1.866	3.584	3.717	2.725
17.99	17.96	368	248	0.13	0.179631	21.80	1.720	1.866	3.587	3.720	2.726
18.07	18.03	368	248	0.13	0.180349	21.82	1.719	1.869	3.588	3.719	2.729
18.14	18.11	368	248	0.13	0.181138	21.84	1.717	1.869	3.586	3.717	2.728
18.22	18.19	368	248	0.13	0.181927	21.86	1.716	1.869	3.585	3,716	2.727
18.30	18.27	368	248	0.13	0.182715	21.89	1.714	1.872	3.586	3.714	2.729
18.37	18.34	368	248	0.13	0.183424	21.90	1.713	1.872	3.584	3.713	2.728
18.45	18.41	369	247	0.13	0.184143	21.92	1.716	1.875	3.590	3.716	2.732
18.52	18.49	370	247	0.13	0.184932	21.95	1.719	1.875	3.593	3.719	2.734
18.60	18.57	371	247	0.12	0.185720	21.97	1.722	1.877	3.599	3.722	2.738
18.68	18.65	371	247	0,12	0.186509	21.99	1,720	1,880	3,600	3,720	2,740
18.75	18.72	373	247	0.12	0.187228	22.01	1,728	1,880	3,608	3,728	2,744
18.83	18.80	374	247	0.12	0.188017	22.03	1,731	1,880	3,611	3,731	2,745
18.91	18.88	376	247	0.12	0.188805	22.05	1.738	1.883	3.621	3.738	2.752

Deformació	Deform.	Celds	Presión	Incremento	Deform.	Åres	Esfuerzo Danata dana	13	1°1	4 7-1-1	Esfuerzo
n (mm)	S	N	(kPa)	(kgt/cm <sup>*</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )
18.98	18.95	376	247	0.12	0.189524	22.07	1.737	1.883	3.620	3.737	2.751
19.06	19.03	377	247	0.12	0.190313	22.09	1.740	1.883	3.623	3.740	2.753
19.13	19.10	377	246	0.11	0.190962	22.11	1.738	1.886	3.624	3.738	2.755
19.20	19.17	379	246	0.11	0.191671	22.13	1.746	1.889	3.634	3.746	2.761
19.26	19.23	381	246	0.11	0.192319	22.15	1.754	1.889	3.642	3.754	2.765
19.34	19.31	381	246	0.11	0.193108	22.17	1.752	1.889	3.641	3.752	2.765
19.42	19.38	381	246	0.11	0.193827	22.19	1.750	1.891	3.642	3.750	2.767
19.49	19.45	381	246	0.11	0.194546	22.21	1.749	1.891	3.640	3.749	2.766
19.57	19.53	382	246	0.11	0.195334	22.23	1.752	1.894	3.646	3.752	2.770
19.64	19.61	382	246	0.11	0.196053	22.25	1.750	1.894	3.644	3.750	2.769
19.72	19.68	382	246	0.11	0.196842	22.27	1.748	1.894	3.643	3.748	2.768
19.79	19.76	382	245	0.10	0.197551	22.29	1.747	1.897	3.644	3.747	2.770
19.86	19.83	382	245	0.10	0.198270	22.31	1.745	1.897	3.642	3.745	2.770
19.93	19.90	383	245	0.10	0.198988	22.33	1.748	1.900	3.648	3.748	2.774
20.00	19.97	382	245	0.10	0.199707	22.35	1.742	1.900	3.642	3.742	2.771
20.08	20.05	382	245	0.10	0.200496	22.37	1.741	1.902	3.643	3.741	2.773

## TRIAXIAL ESTATICO CU - OCR 1.0

## **INV E153**

14-mar.-2013 Fecha

Variabilidad en el corto y largo plazo del estado de esfuerzos en laderas

Proyecto: Localización: Caldes, Antioquia conformadas por suelos residuales Sondeo 1 Muestra: Profundidad: 1,5 m 1 Descripción de la Muestra: Limo de alta compresibilidad color rojizo con motas amarillentas y zonas negras

	P	rimer Inc
Datos de la muestra		
Diámetro (cm)	4.820	
Altura (cm)	10.13	
Area (cm <sup>2</sup> )	18.25	
Volumen (cm <sup>3</sup> )	184.75	
Humedad (%)	50.9	
Peso del suelo humedo (g)	316.32	
Peso del suelo seco (g)	209.7	
Masa unitaria húmoda (g/cm <sup>*</sup> )	171	
Masa unitaria seca (g/cm <sup>3</sup> )	1.13	
Gravedad específica	2.74	
Relación de vacios	1.41	
Saturación (%)	98.54	

Etapa de saturación						
Deformación por saturación (mm)	0					
Diámetro (cm)	4.820					
Altura (cm)	10.125					
Area (cm <sup>2</sup> )	18.247					
Volumen (cm <sup>2</sup> )	184.75					
Masa unitaria seca (g/cm³)	1.13					

p	remento						
	Datos del Ensayo						
	Presión de poros inducida (kgf/cm <sup>2</sup> )	1.00					
	Presión de cámara (kgf/cm <sup>2</sup> )	1.50					
	Presión efectiva (kgf/cm <sup>2</sup> )	0.50					
	Parámetro B	0.95					
	Vel. de aplicación de carga (mm/min)	0.1					

Etapa de Consolidación	
Deformación por consolidación (mm)	0.21
Lectura inicial de la bureta (cm <sup>3</sup> )	19.20
Lectura final de la bureta (cm <sup>8</sup> )	18.20
Cambio volumen consolidación (cm <sup>3</sup> )	1.00
Altura (cm)	10.10
Volumen (cm <sup>®</sup> )	183.75
Area (cm <sup>2</sup> )	18.19
Masa unitaria seca (g/cm <sup>2</sup> )	1.14

Humedad Post-falla		
Peso suelo humedo + tara (g)	394.24	
Peso suelo seco + tara (g)	286.88	
Peso tara (g)	76.63	
Humedad Post-falla (%)	51.06	
Saturación (%)	98.93	

	Se	gundo I
Datos de la muestra		
Diámetro (cm)	4.848	
Altura (cm)	10.027	
Area (cm <sup>2</sup> )	18,457	
Volumen (cm <sup>8</sup> )	185.07	
Humedad (%)	49.09	
Peso del suelo humedo (g)	317.43	
Peso del suelo seco (g)	212.91	
Masa unitaria húmeda (g/cm <sup>3</sup> )	1.72	
Masa unitaria seca (g/cm <sup>3</sup> )	1.15	
Gravedad específica	2.74	
Relación de vacios	1.38	
Saturación (%)	97.35	
		1
Etapa de saturación		
Deformación por saturación (mm)	0	

ncremento		
Datos del Ensayo		
	Presión de poros inducida (kgf/cm <sup>2</sup> )	1.0
	Presión de cámara (kgf/cm <sup>2</sup> )	2.0
	Presión efectiva (kgf/cm <sup>2</sup> )	1.0
	Parámetro B	1
	Vel. de aplicación de carga (mm/min)	0.1

Etapa de Consolidación	
Deformación por consolidación (mm)	0.220
Lectura inicial de la bureta (cm <sup>8</sup> )	12.00
Lectura final de la bureta (cm <sup>2</sup> )	7.90
Cambio volumen consolidación (cm <sup>3</sup> )	4.10
Altura (cm)	10.00
Volumen (cm <sup>®</sup> )	180.97
Area (cm <sup>2</sup> )	18.09

Diámetro (cm)	4.848
Alture (cm)	10.03
Area (cm²)	18.457
Volumen (cm <sup>3</sup> )	185.07
Masa unitaria seca (g/cm³)	1.15

	1	ercer Incre
Datos de la muestra		
Diámetro (cm)	4.772	
Altura (cm)	10.00	
Area (cm <sup>2</sup> )	17.89	
Volumen (cm <sup>2</sup> )	178.81	
Humedad (%)	52.86	
Peso del suelo humedo (g)	316.7	
Peso del suelo seco (g)	207.19	
Masa unitaria húmeda (g/cm <sup>2</sup> )	1.77	
Masa unitaria seca (g/cm <sup>3</sup> )	1.16	
Gravedad específica	2.74	
Relación de vacios	1.36	
Saturación (%)	105.12	

Etapa de saturación		
Deformación por saturación (mm)	0.000	
Diámetro (cm)	4.772	
Altura (cm)	9.997	
Area (cm²)	17.89	
Volumen (cm <sup>3</sup> )	178.81	
Masa unitaria seca (g/cm <sup>3</sup> )	1.16	

Masa unitaria soca (g/cm<sup>8</sup>)

1.18

Humedad Post-falla	
Peso suelo humedo + tara (g)	389.94
Peso suelo seco + tara (g)	283.91
Peso tara (g)	71.28
Humedad Post-falla (%)	49.87
Saturación (%)	98.89
mento	
Protocol and Protocol	

Datos del Ensayo	
Presión de poros inducida (kgf/cm²)	1.0
Presión de cámara (kgf/cm <sup>2</sup> )	3.0
Presión efectiva (kgl/cm <sup>2</sup> )	2.0
Parámetro B	1
Vel. de aplicación de carga (mm/min)	0.1

Etapa de Consolidación		
Deformación por consolidación (mm)	0.27	
Lectura inicial de la bureta (cm <sup>3</sup> )	22.10	
Lectura final de la bureta (cm <sup>8</sup> )	15.50	
Cambio volumen consolidación (cm <sup>3</sup> )	6.60	
Altura (cm)	9.97	
Volumen (cm <sup>8</sup> )	172.21	
Area (cm²)	17.27	
Masa unitaria seca (g/cm <sup>3</sup> )	1.20	

Humedad Post-falla								
Peso suelo humedo + tara (g)	386.42							
Peso suelo seco + tara (g)	283.92							
Peso tara (g)	71.30							
Humedad Post-falla (%)	48.21							
Saturación (%)	96.79							

Etapa de falla primer incremento											
Deformación (mm)	Deform. Unitaria	Celds Cargs N	Presión de poros (kPa)	Incremento deporos (kat/cm <sup>2</sup> )	Deform. Unitaria	Area Corregida (cm <sup>2</sup> )	Estuerzo Dervision (kat/cm <sup>2</sup> )	s'3 Efectivo (kgt/cm²)	s'1 Efectivo (kgt/cm <sup>2</sup> )	s1 Total (kgt/cm²)	Esfuerzo Promedio Ibatian <sup>2</sup> )
0.00	0.00	0	86	0.00	0.000000	18.19	0.000	0.500	0.500	0.500	0.500
0.02	0.02	23	86	0.01	0.000208	18.19	0.129	0.494	0.623	0.629	0.559
0.05	0.05	2	87	0.01	0.000495	18.19	0.162	0.489	0.651	0.662	0.570
0.07	0.07	3	87	0.02	0.000703	18.20	0.190	0.483	0.674	0.690	0.579
0.10	0.10	39	88	0.02	0.000990	18.20	0.213	0.478	0.690	0.713	0.584
0.12	0.12	4	88	0.03	0.001207	18.21	0.235	0.472	0.707	0.735	0.590
0.15	0.15	4	89	0.03	0.001485	18.21	0.252	0.467	0.718	0.752	0.592
0.18	0.18	49	89	0.04	0.001772	18.22	0.274	0.461	0.735	0.774	0.598
0.20	0.20	52	90	0.04	0.001989	18.22	0.291	0.458	0.749	0.791	0.604
0.23	0.23	55	90	0.05	0.002266	18.23	0.308	0.453	0.760	0.808	0.606
0.26	0.26	59	91	0.05	0.002553	18.23	0.330	0.447	0.777	0.830	0.612
0.28	0.28	61	92	0.06	0.002771	18.24	0.341	0.439	0.780	0.841	0.609
0.31	0.30	64	92	0.06	0.003048	18.24	0.358	0.436	0.794	0.858	0.615

	Deform.	Celda	Presión	Incremento		Åres	Estuario	13	a'1	=1	Esfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Derviedor	Electivo	Electivo	Total	Promedio
(mm)	26	N	(kPa)	(kg//cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(ket/cm <sup>2</sup> )
0.33	0.33	67	93	0.07	0.003266	18.24	0.374	0.430	0.805	0.874	0.617
0.36	0.36	69	93	0.08	0.003553	18.25	0.385	0.425	0.810	0.885	0.617
0.38	0.38	72	94	0.08	0.003761	18.25	0.402	0.419	0.821	0.902	0.620
0.40	0.40	74	94	0.09	0.003979	18.26	0.413	0.414	0.827	0.913	0.620
0.43	0.43	76	94	0.09	0.004266	18.26	0.424	0.411	0.835	0.924	0.623
0.45	0.45	78	95	0.09	0.004473	18.27	0.435	0.405	0.841	0.935	0.623
0.48	0.48	80	95	0.10	0.004760	18.27	0.446	0.402	0.849	0.946	0.626
0.52	0.51	82	96	0.10	0.005117	18.28	0.457	0.397	0.854	0.957	0.626
0.54	0.53	84	96	0.11	0.005325	18.28	0.468	0.391	0.860	0.968	0.625
0.56	0.55	86	97	0.11	0.005542	18.29	0.479	0.386	0.865	0.979	0.625
0.58	0.58	87	97	0.12	0.005750	18.29	0.485	0.383	0.868	0.985	0.625
0.61	0.60	89	98	0.12	0.006037	18.30	0.496	0.377	0.873	0.996	0.625
0.64	0.63	91	98	0.13	0.006324	18.30	0.507	0.375	0.881	1.007	0.628
0.66	0.65	92	99	0.13	0.006532	18.30	0.512	0.369	0.881	1.012	0.625
0.68	0.67	94	99	0.13	0.006750	18.31	0.523	0.366	0.890	1.023	0.628
0.71	0.70	96	99	0.14	0.007037	18.31	0.534	0.361	0.895	1.034	0.628
0.74	0.73	97	100	0.14	0.007314	18.32	0.540	0.358	0.898	1.040	0.628
0.76	0.75	99	100	0.15	0.007532	18.32	0.551	0.352	0.903	1.051	0.628
0.78	0.77	100	101	0.15	0.007739	18.33	0.556	0.350	0.906	1.056	0.628
0.81	0.80	102	101	0.15	0.008026	18.33	0.567	0.347	0.914	1.067	0.630
0.83	0.82	103	101	0.16	0.008244	18.34	0.573	0.344	0.917	1.073	0.630
0.86	0.85	105	102	0.16	0.008521	18.34	0.584	0.338	0.922	1.084	0.630
0.88	0.87	107	102	0.16	0.008739	18.35	0.595	0.336	0.930	1.095	0.633
0.91	0.90	109	102	0.17	0.008957	18.35	0.606	0.333	0.938	1.106	0.636
0.93	0.92	111	103	0.17	0.009234	18.35	0.616	0.330	0.946	1.116	0.638
0.96	0.95	112	103	0.17	0.009452	18.36	0.622	0.327	0.949	1.122	0.638
0.98	0.97	114	103	0.18	0.009659	18.36	0.633	0.322	0.954	1.133	0.638
1.01	0.99	115	103	0.18	0.009946	18.37	0.638	0.322	0.960	1.138	0.641
1.03	1.02	117	104	0.18	0.010233	18.37	0.649	0.319	0.968	1.149	0.643
1.06	1.04	118	104	0.19	0.010441	18.38	0.655	0.313	0.968	1.155	0.641
1.08	1.07	120	105	0.19	0.010659	18.38	0.665	0.310	0.976	1.165	0.643
1.10	1.09	121	105	0.19	0.010877	18.39	0.671	0.310	0.981	1.171	0.646
1.13	1.12	122	105	0.19	0.011154	18.39	0.676	0.308	0.984	1.176	0.646
1.16	1.14	123	105	0.20	0.011441	18.40	0.682	0.305	0.986	1.182	0.646
1.18	1.17	125	105	0.20	0.011659	18.40	0.693	0.302	0.995	1.193	0.648
1.21	1.19	126	106	0.20	0.011936	18.40	0.698	0.299	0.997	1.198	0.648
1.23	1.22	127	106	0.20	0.012153	18.41	0.703	0.299	1.003	1.203	0.651
1.26	1.24	129	106	0.20	0.012440	18.41	0.714	0.297	1.011	1.214	0.654
1.28	1.26	130	105	0.21	0.012648	18.42	0.719	0.294	1.013	1.219	0.654
1.31	1.29	132	106	0.21	0.012935	18.42	0.730	0.291	1.021	1.230	0.656
1.33	1.31	133	107	0.21	0.013143	18.43	0.736	0.288	1.024	1.236	0.656
1.36	1.34	135	107	0.21	0.013430	18.43	0.747	0.288	1.035	1.247	0.661
1.38	1.36	136	107	0.21	0.013648	18.44	0.752	0.285	1.037	1.252	0.661
1.41	1.39	137	107	0.22	0.013925	18.44	0.757	0.283	1.040	1.257	0.661
1.43	1.41	138	108	0.22	0.014143	18.45	0.763	0.280	1.042	1.263	0.661
1.46	1.44	140	108	0.22	0.014430	18.45	0.773	0.280	1.053	1.273	0.667
1.48	1.46	141	108	0.22	0.014637	18.46	0.779	0.277	1.056	1.279	0.666
1.50	1.49	142	108	0.22	0.014855	18.46	0.784	0.277	1.061	1.284	0.669
1.54	1.52	143	108	0.23	0.015211	18.47	0.789	0.274	1.064	1.289	0.669
1.56	1.54	144	108	0.23	0.015419	18.47	0.795	0.274	1.069	1.295	0.672
1.58	1.56	146	108	0.23	0.015637	18.47	0.806	0.271	1.077	1.305	0.674
1.61	1.59	148	108	0.23	0.015924	18.48	0.816	0.271	1.088	1.316	0.680

	Deform.	Celda	Presión	Incremento		Åres	Estuerro	1,3	a'1	:1	Esfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Derviedor	Efectivo	Efectivo	Total	Promedio
(mm)	56	N	(kPa)	(kgf/cm <sup>2</sup> )	Uniteria	(cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgl/cm <sup>2</sup> )	(kg(/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
1.63	1.61	149	109	0.23	0.016132	18.48	0.822	0.269	1.090	1.322	0.680
1.66	1.64	151	109	0.23	0.016419	18.49	0.833	0.269	1.101	1,933	0.685
1.68	1.66	152	109	0.23	0.016627	18.49	0.838	0.269	1 107	1 998	0.688
1.71	1.69	154	109	0.23	0.016914	18.50	0.849	0.266	1 115	1 949	0.690
1.72	1.71	100	100	0.34	0.017053	19.50	0.954	0.362	1 1 1 7	1 35.4	0.690
175	173	156	109	0.23	0.017339	18.51	0.859	0.265	1.125	1 959	0.696
1.79	1.77	158	109	0.24	0.017696	18.51	0.870	0.263	1.133	1.370	0.698
1.81	1.79	159	110	0.24	0.017913	18 53	0.875	0.260	1.136	1 975	0.698
1.83	1.81	160	110	0.24	0.018121	18 52	0.881	0.260	1 141	1 381	0.201
1.95	1.94	161	110	0.34	0.019409	10 53	0.005	0.159	1 1 4 2	1 396	0.300
1.00	1.04	101	1.50	0.24	0.0100400	10.33	0.000	0.200	1.140	1 305	0.700
1.00	1.00	164	110	0.24	0.018903	10.33	0.001	0.200	1.150	1.403	0.703
1.02	1.01	1.05	1.50	0.24	0.019131	10.54	0.007	0.159	1.105	1.407	0.711
1.93	1.91	166	110	0.29	0.019121	10.09	0.907	0.250	1.100	1,413	0.711
1.30	1.34	100	1.00	0.25	0.013338	10.33	0.912	0.200	1.107	1.412	0.711
1.98	1.90	167	110	0.25	0.019616	18.55	0.918	0.255	1.172	1.418	0.714
2.01	1.33	170	1.10	0.25	0.019903	10.00	0.923	0.225	1.1/0	1.423	0.710
2.03	2.01	170	110	0.25	0.020110	10.00	0.334	0.252	1.100	1.434	0.719
2.05	2.03	170	110	0.25	0.020828	18.56	0.934	0.252	1.185	1.434	0.719
2.08	2.06	171	110	0.25	0.020615	18.57	0.939	0.252	1.191	1.439	0.721
2.10	2.08	173	110	0.25	0.020823	18.57	0.950	0.252	1.202	1.450	0.727
2.13	2.10	173	110	0.25	0.021041	18.58	0.949	0.252	1.201	1.449	0.727
2.15	2.13	175	111	0.25	0.021318	18.58	0.960	0.249	1.209	1.460	0.729
2.18	2.15	175	111	0.25	0.021536	18.59	0.960	0.249	1.209	1.460	0.729
2.20	2.18	177	111	0.25	0.021753	18.59	0.971	0.249	1.220	1.471	0.734
2.23	2.20	178	111	0.25	0.022030	18.59	0.976	0.249	1.225	1.476	0.737
2.25	2.22	178	111	0.25	0.022248	18.60	0.976	0.246	1.222	1.476	0.734
2.28	2.25	180	111	0.25	0.022535	18.60	0.986	0.246	1.233	1.486	0.740
2.30	2.27	180	111	0.25	0.022743	18.61	0.986	0.246	1.232	1.486	0.739
2.32	2.30	181	111	0.25	0.022961	18.61	0.991	0.246	1.238	1.491	0.742
2.34	2.32	182	111	0.25	0.023169	18.62	0.997	0.246	1.243	1.497	0.745
2.37	2.35	183	111	0.26	0.023456	18.62	1.002	0.244	1.245	1.502	0.744
2.39	2.37	184	111	0.26	0.023663	18.63	1.007	0.244	1.251	1.507	0.747
2.42	2.40	185	111	0.26	0.023950	18.63	1.012	0.244	1.256	1.512	0.750
2.45	2.42	186	111	0.26	0.024237	18.64	1.017	0.244	1.261	1.517	0.752
2.47	2.44	187	111	0.26	0.024445	18.64	1.023	0.244	1.266	1.523	0.755
2.49	2.47	188	111	0.26	0.024663	18.65	1.028	0.244	1.271	1.528	0.758
2.51	2.49	189	111	0.26	0.024881	18.65	1.033	0.244	1.277	1.533	0.760
2.54	2.52	189	111	0.26	0.025158	18.65	1.033	0.244	1.276	1.533	0.760
2.56	2.54	190	111	0.26	0.025376	18.66	1.038	0.241	1.279	1.538	0.760
2.59	2.56	191	111	0.26	0.025583	18.66	1.043	0.241	1.284	1.543	0.762
2.61	2.59	192	111	0.26	0.025870	18.67	1.048	0.241	1.289	1.548	0.765
2.64	2.61	192	111	0.26	0.026088	18.67	1.048	0.241	1.289	1.548	0.765
2.66	2.63	193	111	0.26	0.026296	18.68	1.053	0.241	1.294	1.553	0.768
2.69	2.66	194	111	0.26	0.026583	18.68	1.059	0.241	1.299	1.559	0.770
2.71	2.68	194	111	0.26	0.026791	18.69	1.058	0.241	1.299	1.558	0.770
2.74	2.71	195	111	0.26	0.027078	18.69	1.063	0.241	1.304	1,563	0.773
2.75	2.72	195	111	0.26	0.027226	18.69	1.063	0.241	1.304	1.563	0.772
2.78	2.75	196	111	0.26	0.027503	18.70	1.068	0.241	1.309	1.568	0.775
2,81	2.78	197	111	0.26	0.027790	18 71	1.074	0.241	1.914	1.574	0.778
2.82	2.79	197	111	0.26	0.027929	18.71	1.073	0.241	1.314	1.573	0.778
2.85	2.82	198	111	0.26	0.028216	18 71	1.079	0.241	1 3 1 9	1,579	0.780
2.87	2.84	199	111	0.26	0.028434	18.72	1.084	0.241	1.325	1.584	0.783
	Deform	Calda	Presiden	Incremento		Åren	Infuerto	a'3	11	=1	Esfuerzo
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Deformación	Unitaria	Carga	de poros	deporos	Deform.	Corregida	Desviedor	Electivo	Bectivo	Total	Promedio
(mm)	<b>%</b>	N	(kPa)	(kg//cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(hgt/cm <sup>2</sup> )	(ket/cm <sup>2</sup> )
2.90	2.87	200	111	0.26	0.028711	18,72	1.089	0.241	1.330	1.589	0.785
2.92	2.89	200	111	0.26	0.028929	18,73	1.089	0.241	1.329	1.589	0.785
2.95	2.91	201	111	0.26	0.029146	18,73	1.094	0.241	1.335	1.594	0.788
2.97	2.94	202	111	0.26	0.029354	18.74	1.099	0.241	1.340	1.599	0.790
3.00	2.96	203	111	0.26	0.029641	18,74	1.104	0.241	1.345	1.604	0.793
3.02	2.99	204	111	0.26	0.029928	18.75	1.109	0.241	1.350	1.609	0.795
3.05	3.01	205	111	0.26	0.030136	18.75	1.114	0.241	1.355	1.614	0.798
3.07	3.04	206	111	0.26	0.030854	18.75	1.120	0.241	1.360	1.620	0.801
3.10	3.06	206	111	0.26	0.030631	18.76	1.119	0.241	1.360	1.619	0.800
3.12	3.08	207	111	0.26	0.030849	18.76	1.125	0.241	1.365	1.625	0.803
3.15	3.11	207	111	0.26	0.031136	18.77	1.124	0.241	1.365	1.624	0.803
3.17	3.13	208	111	0.26	0.031343	18.77	1.129	0.241	1.370	1.629	0.805
3.20	3.16	209	111	0.26	0.031630	18.78	1.134	0.241	1.375	1.634	0.808
3.23	3.19	210	111	0.26	0.031917	18.78	1.140	0.241	1.380	1.640	0.811
3.25	3.21	211	111	0.26	0.032125	18.79	1.145	0.241	1.386	1.645	0.813
3.27	3.23	211	111	0.26	0.032343	18.79	1.144	0.241	1.385	1.644	0.813
3.30	3.26	212	111	0.26	0.032620	18.80	1.150	0.241	1.390	1.650	0.816
3.33	3.29	212	111	0.26	0.032907	18.80	1.149	0.241	1.390	1.649	0.815
3.35	3.31	213	111	0.26	0.033125	18.81	1.154	0.241	1.395	1.654	0.818
3.37	3.33	213	111	0.26	0.033333	18.81	1.154	0.241	1.395	1.654	0.818
3.40	3.36	214	111	0.26	0.033620	18.82	1.159	0.241	1.400	1.659	0.820
3.42	3.38	214	111	0.26	0.033837	18.82	1.159	0.241	1.400	1.659	0.820
3.45	3.41	214	111	0.26	0.034115	18.83	1.159	0.244	1.402	1.659	0.823
3.48	3.44	215	111	0.26	0.034402	18.83	1.164	0.241	1.405	1.664	0.823
3.50	3.46	216	111	0.26	0.034619	18.84	1.169	0.241	1.410	1.669	0.825
3.53	3.49	217	111	0.26	0.034896	18.84	1.174	0.241	1.415	1.674	0.828
3.55	3.51	218	111	0.26	0.035114	18.85	1.179	0.241	1.420	1.679	0.830
3.58	3.54	218	111	0.26	0.035401	18.85	1.179	0.241	1.420	1.679	0.830
3.60	3.56	219	111	0.26	0.035609	18.85	1.184	0.241	1.425	1.684	0.833
3.63	3.59	220	111	0.26	0.035896	18.86	1.189	0.241	1.430	1.689	0.835
3.66	3.62	221	111	0.26	0.036183	18.87	1.194	0.241	1.435	1.694	0.838
3.68	3.64	222	111	0.26	0.036391	18.87	1.199	0.244	1.443	1.699	0.843
3.71	3.67	222	111	0.26	0.036678	18.88	1.199	0.244	1.442	1.699	0.843
3.73	3.69	222	111	0.26	0.036886	18.88	1.199	0.244	1.442	1.699	0.843
3.76	3.72	222	111	0.26	0.037173	18.89	1.198	0.244	1.442	1.698	0.843
3.78	3.74	223	111	0.28	0.037390	18.89	1.203	0.244	1.447	1.703	0.845
3.81	3.77	223	111	0.26	0.037668	18.90	1.203	0.244	1.447	1.703	0.845
3.84	3.80	224	111	0.28	0.037955	18.90	1.208	0.244	1.452	1.708	0.848
3.80	3.82	224	111	0.26	0.038242	18.91	1.208	0.244	1.451	1,708	0.847
3.63	3.00	223	111	0.20	0.000020	10.01	1.213	0.244	1,400	1.713	0.000
3.91	3.87	225	111	0.26	0.038/36	18.92	1.212	0.244	1,455	1.712	0.850
3.34	3.30	220	111	0.25	0.035023	10.92	1.217	0.240	1.404	1.717	0.000
3.97	3.93	225	111	0.25	0.039310	18.95	1.217	0.246	1.463	1.717	0.855
3.79	3.93	228	111	0.25	0.039518	18.93	1 212	0.246	1,403	1.717	0.855
4.04	3.37	333	444	0.25	0.020044	10.04	1 222	0.240	1,403	1 722	0.957
4.07	4,00	226	111	0.25	0.04/031	18.95	1 216	0.246	1,462	1 716	0.854
4.09	4.05	227	111	0.25	0.040518	18.95	1 221	0.246	1,467	1 721	0.857
4.12	4.07	227	111	0.25	0.040726	18.96	1 221	0.249	1,470	1 721	0.859
4.14	4.10	227	111	0.25	0.041013	18 96	1,220	0.246	1.467	1,720	0.857
4.17	4.12	228	111	0.25	0.041230	18.97	1 225	0.249	1.475	1 725	0.862
4.19	4.15	228	111	0.25	0.041507	18.97	1.225	0.249	1.474	1.725	0.862

	Deform.	Celda	Presión	Incremento		Åren	Estuerro	s'3	a'1	=1	Esfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregide	Dervindor	Electivo	Efectivo	Total	Promedio
(mm)	5	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(lat/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
4.22	4.18	228	111	0.25	0.041795	18.98	1.225	0.249	1.474	1.725	0.861
4.25	4.20	229	111	0.25	0.042012	18.98	1.230	0.249	1.479	1.730	0.864
4.27	4.23	229	111	0.25	0.042289	18.99	1.229	0.249	1.479	1,729	0.864
4.30	4.26	230	111	0.25	0.042576	18.99	1.234	0.249	1.484	1,734	0.866
4.32	4.78	230	111	0.25	0.042794	19.00	1.234	0.249	1483	1 734	0.866
4.35	4.31	230	111	0.25	0.043071	19.00	1.234	0.249	1.483	1,734	0.866
4.37	4.33	231	110	0.25	0.043289	19.01	1.239	0.252	1.491	1,739	0.871
4.40	4.36	231	110	0.25	0.043576	19.01	1.238	0.252	1.490	1 738	0.871
4.42	4.38	232	110	0.25	0.043784	19.02	1.244	0.252	1.495	1.744	0.874
4.45	4.41	282	110	0.25	0.044071	19.02	1.243	0.252	1.495	1 743	0.874
4.47	4.43	233	110	0.25	0.044279	19.03	1.248	0.255	1.503	1,748	0.879
4.50	4.46	233	110	0.25	0.044566	19.03	1.248	0.255	1 503	1,748	0.879
4.53	4.49	234	110	0.25	0.044853	19.04	1.253	0.255	1 508	1 753	0.881
4.55	4.51	236	110	0.25	0.045050	19.04	1.263	0.255	1518	1 763	0.886
4.58	4.53	236	110	0.24	0.045347	19.05	1.263	0.258	1.520	1 763	0.889
4.61	4.56	238	110	0.24	0.045634	19.05	1 273	0.258	1 581	1 773	0.894
4.63	4.59	238	110	0.24	0.045852	19.05	1 273	0.258	1530	1 773	0.894
1 66	4.61	340	110	0.34	0.046139	10.06	1 393	0.359	1 5 8 1	1 793	0.990
4.69	4.64	240	110	0.24	0.046416	19.07	1.283	0.258	1540	1 783	0.899
4.71	4.66	241	110	0.24	0.045534	19.07	1.288	0.258	1545	1 788	0.901
4.74	4.60	343	110	0.34	0.046911	10.02	1 202	0.360	1 550	1 792	0.907
4.76	4.71	243	110	0.24	0.047129	19.08	1.298	0.260	1558	1 798	0.909
4.70	4.74	344	1.50	0.24	0.047416	10.00	1 202	0.360	1 560	1 903	0.013
4.73	4.76	244	110	0.24	0.047634	10.00	1.000	0.200	1 560	1 903	0.912
4.84	4.79	345	110	0.24	0.047911	19.10	1 308	0.260	1568	1.808	0.914
4.95	4.04	240	1.00	0.24	0.040110	10.10	4.949	0.200	1 5 3 6	1 0 1 0	0.010
4.00	4.01	240	109	0.24	0.046226	10.10	1.313	0.203	1.575	1 913	0.919
4.00	4.00	2470	1.00	0.24	0.040030	10.11	4.947	0.202	1 500	1 017	0.022
4.01	4.00	247	109	0.24	0.049921	10.11	1.017	0.203	1.500	1.017	0.922
4.06	4.91	349	109	0.24	0.049119	10.13	1,222	0.362	1 5 9 5	1.922	0.924
4.00	4.02	2.40	1.00	0.24	0.040236	10.12	4.957	0.202	1 600	1 037	0.020
9.30	4.33	243	109	0.23	0.049544	10.13	1.327	0.200	1.595	1.927	0.929
5.04	4.00	200	1.00	0.2.5	0.040024	10.14	4 9 9 9	0.200	1 505	1 000	0.020
5,049	9.30	250	109	0.29	0.050109	10.14	1.332	0.203	1.000	1 934	0.929
5.09	5.01	251	109	0.29	0.050236	10.14	1.330	0.205	1.600	1.030	0.991
5.44	5.00	36.3	1.00	0.22	0.0000010	10.15	4.044	0.200	1.607	1 0 1 1	0.000
5.11	5.00	202	109	0.23	0.05/0910	19.15	1.041	0.200	1,613	1,944	0.330
0.14	5,400	303	400	0.23	0.000000	10.10	4,074	0.200	4,000	1.010	0.333
5.10	5.10	224	109	0.23	0.001030	10.10	1.331	0.203	1.020	1 051	0.044
5.19	5.15	204	109	0.23	0.051525	10.17	1.351	0.209	1.619	1 950	0.944
2.35	5.13	2.2%	100	0.23	0.054754	10.10	1 955	0.200	1,634	1,955	0.044
5.23	5.10	200	109	0.23	0.053039	10.10	4 955	0.203	1.029	1 955	0.040
2.49	3.20	433	100	0.23	0.002020	10.10	4.333	0.202	1.029	1.000	0.040
5.28	5.22	255	108	0.25	0.052246	19.19	1.355	0.271	1.626	1.855	0.949
5.51	5.25	200	108	0.23	0.052533	10.19	1.354	0.271	1,625	1,954	0.049
0.34	0.20	433	100	0.23	0.052610	10.20	4,0004	0.271	1.025	1.004	0.040
5.38	5.30	255	108	0.23	0.053027	19.20	1.354	0.271	1.625	1.854	0.948
5.38	5.32	200	108	0.23	0.0525245	19.21	1.353	0.271	1,625	1,003	0.948
5,41	5.35	433	108	0.23	0.003022	10.21	1.353	0.274	1.027	1.653	0.351
5,44	5.38	255	108	0.23	0.053809	19.22	1.352	0.274	1.627	1.852	0.950
5.46	5.40	200	108	0.23	0.054027	19.72	1.352	0.274	1.626	1.602	0.950
5.48	5.42	255	108	0.22	0.054235	19.23	1.352	0.277	1.629	1852	0.953
3.51	3.43	255	108	0.22	0.054572	19.23	1.351	0.237	1.628	1.451	0.353

	Deform.	Celda	Presión	Incremento		Åren	Eriverto	13	- 11	11	Estuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Derviedor	Electivo	Efectivo	Total	Promedio
(mm)	56	N	(kPa)	(kg//cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kg(/cm <sup>2</sup> )	(kg(/cm <sup>2</sup> )	(logi/cm <sup>2</sup> )	(ket/cm <sup>2</sup> )
5.53	5.47	256	108	0.22	0.054730	19.24	1.356	0.277	1.633	1.856	0.955
5.56	5.50	256	108	0.22	0.055017	19.24	1.356	0.277	1.633	1.856	0.955
5.58	5.52	256	108	0.22	0.055234	19.25	1.356	0.277	1.633	1.856	0.955
5.61	5.55	256	108	0.22	0.055512	19.25	1.355	0.277	1.632	1.855	0.955
5.63	5.57	256	108	0.22	0.055729	19.26	1 355	0.277	1.632	1.855	0.955
5.66	5.60	256	108	0.22	0.056016	19.26	1.355	0.277	1.632	1.855	0.954
5.69	5.63	256	108	0.22	0.056293	19.27	1.354	0.280	1.634	1.854	0.957
5.72	5.66	256	107	0.22	0.056580	19.28	1354	0.283	1.636	1.854	0.960
5.74	5.68	256	107	0.22	0.056798	19.28	1.353	0.283	1.636	1.853	0.959
5,76	5.70	256	107	0.22	0.057006	19.28	1.353	0.283	1.636	1.853	0.959
5.79	5.73	256	107	0.22	0.057293	19.29	1.353	0.283	1.635	1.853	0.959
5.82	5.76	256	107	0.22	0.057580	19.30	1.352	0.283	1.635	1.852	0.959
5.84	5.78	257	107	0.22	0.057788	19.30	1.357	0.283	1.640	1.857	0.961
5.86	5.80	257	107	0.22	0.058006	19.31	1.357	0.283	1.640	1.857	0.961
5.89	5.83	258	107	0.21	0.058293	19.31	1362	0.285	1.647	1.862	0.966
5.91	5.85	258	107	0.21	0.058500	19.32	1.362	0.285	1.647	1.862	0.966
5.94	5.88	258	107	0.21	0.058787	19.32	1.361	0.285	1.647	1.861	0.966
5.96	5.90	259	107	0.21	0.058995	19.33	1366	0.285	1.652	1.866	0.968
5.99	5.93	259	107	0.21	0.059282	19.33	1.366	0.288	1.654	1.855	0.971
6.01	5.95	259	107	0.21	0.059500	19.34	1.365	0.288	1.654	1.865	0.971
6.04	5.98	260	107	0.21	0.059777	19.94	1 370	0.288	1.658	1.870	0.973
6.06	6.00	260	107	0.21	0.059995	19.35	1.370	0.288	1.658	1.870	0.973
6.09	6.03	260	107	0.21	0.060282	19.95	1 370	0.288	1.658	1.870	0.973
6.11	6.05	260	105	0.21	0.060490	19.36	1369	0.291	1.660	1869	0.976
6.14	6.08	261	105	0.21	0.060777	19.36	1.374	0.291	1.665	1.874	0.978
6.17	6.11	261	105	0.21	0.061064	19.97	1 874	0.291	1.665	1.874	0.978
6.19	6.13	262	105	0.21	0.061272	19.37	1.379	0.291	1.670	1.879	0.980
6.22	6.16	262	105	0.21	0.061559	19.38	1 378	0.294	1.672	1 878	0.983
6.24	6.18	262	105	0.21	0.061766	19.38	1.378	0.294	1.672	1.878	0.983
6.27	6.21	263	105	0.21	0.062053	19.39	1.383	0.294	1.677	1.883	0.985
6.29	6.23	263	106	0.21	0.062271	19.39	1.382	0.294	1.676	1.882	0.985
6.32	6.25	264	106	0.21	0.062548	19.40	1.387	0.294	1.681	1.887	0.987
6.34	6.28	264	105	0.21	0.062766	19.40	1 387	0.294	1.681	1.887	0.987
6.37	6.31	264	105	0.20	0.063053	19.41	1.387	0.297	1.683	1.887	0.990
6.39	6.33	265	106	0.20	0.063261	19.41	1.391	0.297	1.688	1.891	0.992
6.42	6.35	265	106	0.20	0.063548	19.42	1.391	0.297	1.688	1.891	0.992
6.45	6.38	266	106	0.20	0.063835	19.43	1,396	0.297	1.692	1.896	0.994
6.47	6.40	266	106	0.20	0.064043	19.43	1.396	0.297	1.692	1.896	0.994
6.50	6.43	266	105	0.20	0.064330	19.44	1.395	0.297	1.692	1.895	0.994
6.52	6.45	267	105	0.20	0.064547	19.44	1.400	0.299	1.699	1,900	0.999
6.55	6.48	267	106	0.20	0.064825	19.45	1,400	0.299	1.699	1,900	0.999
6.57	6.50	268	105	0.20	0.065042	19.45	1.405	0.302	1.707	1,905	1.004
6.60	6.53	268	105	0.20	0.065329	19.46	1.404	0 302	1 206	1 904	1.004
6.62	6,55	269	105	0.20	0.065537	19.46	1,409	0.302	1,711	1,909	1,007
6.64	6.58	269	105	0.20	0.065755	19.47	1.409	0.302	1,711	1.909	1.006
6.67	6,60	269	105	0.20	0.065963	19.47	1,408	0,302	1,711	1,908	1,006
6.69	6.62	270	105	0.20	0.066250	19.48	1.413	0.305	1,718	1.913	1.012
6.72	6.65	270	105	0.20	0.066537	19.48	1.413	0.305	1.718	1.913	1.011
6.74	6,67	271	105	0.20	0.066745	19.49	1,418	0,305	1,723	1,918	1.014
6.77	6.70	272	105	0.20	0.066962	19.49	1.423	0.305	1.727	1.923	1.016
6.80	6,72	272	105	0.20	0.067249	19.50	1,422	0,305	1,727	1,922	1,016
6.82	6.75	273	105	0.20	0.067457	19.50	1.427	0.305	1.732	1.927	1.018

	Deform.	Calda	Presión	Incremento		Åres	Lifeero .	13	11	11	Esfuerzo
Deformación	Unitaria	Carga	de poros	deporos	Deform.	Corregida	Derviedor	Electivo	Efectivo	Total	Promedio
(mm)	8	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kg(/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )
6.85	6.77	273	105	0.19	0.067744	19.51	1.427	0.308	1.734	1.927	1.021
6.87	6.80	274	105	0.20	0.067952	19.51	1.432	0.305	1.736	1.982	1.021
6.90	6.82	275	105	0.19	0.068239	19.52	1.436	0.308	1.744	1.936	1.026
6.92	6.85	275	105	0.19	0.068457	19.52	1.436	0.308	1.744	1.936	1.026
6.95	6.87	276	105	0.19	0.068734	19.53	1.441	0.310	1.751	1.941	1.031
6.97	6.90	277	105	0.19	0.068952	19.53	1.446	0.310	1.756	1.946	1.033
6.99	6.92	277	105	0.19	0.069159	19.54	1.445	0.310	1.756	1.945	1.083
7.02	6.94	278	105	0.19	0.069446	19.54	1.450	0.310	1.761	1.950	1.036
7.05	6.97	278	105	0.19	0.069733	19.55	1.450	0.310	1,760	1.950	1.035
7.07	6.99	279	105	0.19	0.069941	19.55	1.455	0.310	1,765	1.955	1.038
7.09	7.02	280	105	0.19	0.070159	19.56	1,459	0.310	1,770	1.959	1.040
7.12	7.04	281	105	0.19	0.070446	19.56	1.464	0.310	1,775	1.964	1.043
7.15	7.07	281	104	0.19	0.070733	19.57	1.464	0.313	1,777	1.964	1.045
7.17	7.09	282	104	0.19	0.070941	19.57	1.469	0.313	1,782	1.969	1.048
7.19	7.12	283	104	0.19	0.071159	19.58	1473	0.313	1 787	1 973	1.050
7.22	7.14	283	104	018	0.071436	19.58	1473	0.916	1 789	1 973	1.053
7.24	7.17	284	104	0.18	0.071653	19.59	1.478	0.316	1,794	1.978	1.055
7 27	7.19	284	104	0.18	0.071940	19.59	1477	0.316	1 793	1 977	1.055
7.29	7.21	285	104	0.18	0.072148	19.60	1482	0.319	1 801	1 982	1.050
7.31	7.24	285	104	0.18	0.072366	19.60	1.482	0.316	1,798	1.982	1.057
7 84	7.26	286	104	0.18	0.072643	19.61	1487	0.319	1.806	1 987	1.052
7 37	7.29	286	104	0.18	0.072930	19.62	1486	0.319	1.805	1 986	1.052
7.99	7.94	200	104	0.19	0.072149	10.63	1.100	0.910	1 905	1.995	1.063
7.42	7.94	287	103	0.18	0.073425	19.63	1.491	0.322	1.812	1 991	1.057
7.44	7 36	288	104	0.18	0.073643	19.63	1.495	0.319	1.814	1 995	1.057
7.46	7.99	200	102	0.19	0.073960	10.63	1.465	0.999	1.917	1 995	1.069
7.49	7.41	289	103	0.18	0.074137	19.64	1500	0.322	1.822	2,000	1.072
7.54	7.44	299	102	0.19	0.074255	10.05	1 500	0.999	1.931	3,000	1.071
7.54	7.44	200	102	0.10	0.074643	10.05	1.500	0.322	1.921	2.000	1.077
7.56	7.49	291	103	0.18	0.074850	19.66	1509	0.324	1 834	2,009	1.079
7.50	7.54	201	102	0.19	0.075127	10.66	1 500	0.934	1 999	3,009	1.079
7.53	7.51	201	102	0.10	0.075434	19.60	1,509	0.324	1.000	2.009	1.091
7.64	7.54	202	400	0.10	0.075630	10.57	4 6 4 9	0.004	1.007	2.013	1.001
7.04	7.59	292	103	0.10	0.075950	10.07	1.513	0.324	1.007	2.013	1.091
7.60	7.30	202	103	0.10	0.076057	13.00	1.513	0.324	1.007	2.013	1.001
7.25	7.60	202	4/00	0.17	0.070037	10.00	4 6 4 7	0.007	1.044	2.012	1,000
7.74	7.03	223	100	0.17	0.076244	10.09	1.517	0.327	1.044	2.017	1,000
7.79	7.00	233	4.00	0.17	0.076562	13.03	1.517	0.027	1.044	2.017	1.000
7.79	7,99	223	100	0.17	0.076304	10.70	1.510	0.327	1.042	2.010	1,000
7.73	7.07	233	100	0.17	0.077265	10.70	1.510	0.327	1.044	2.010	1,000
7.04	7.73	233	4.00	0.17	0.077200	10.71	1.515	0.000	1.045	2.015	1.000
7.03	1.75	293	105	0.17	0.077483	19.71	1.515	0.330	1.045	2.015	1.065
7.00	1.70	234	105	0.17	0.077770	13.72	1.520	0.350	1.650	2.020	1.000
7.88	7.80	254	105	0.17	0.077977	19.72	1.519	0.330	1.845	2.019	1.050
7.90	7.82	234	102	0.17	0.078195	19.73	1.519	0.333	1.852	2.019	1.092
1.33	7.00	233	102	0.17	0.076672	13.73	1.329	0.333	1.407	2.029	1,000
7.95	7.87	255	102	0.17	0.078590	19.74	1.523	0.333	1.855	2.023	1.095
7.58	7.90	295	102	0.17	0.078977	19.74	1.523	0.333	1.855	2.023	1.094
0.00	1.34	233	102	0.10	0.075160	13.75	1.343	0.330	1.000	2.023	1.007
8.03	7.55	295	102	0.16	0.079472	19.76	1.522	0.335	1.858	2.022	1.097
8.05	7.97	295	102	0.15	0.079690	19.76	1.577	0.336	1.857	2.022	1.056
8.02	7.93	295	102	0.17	0.079333	19.75	1.522	0.333	1.855	2.022	1.094
8.10	8.02	295	102	0.16	0.080184	19.77	1.521	0.336	1.857	Z.021	1.096

	Deform.	Celda	Presión	Incremento		Årea	Eriverto	13	11	=1	Estuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Derviedor	Efectivo	Efectivo	Total	Promedio
(mm)		N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )
8.13	8.05	296	102	0.16	0.080471	19.78	1.526	0.338	1.864	2.026	1.101
8.15	8.07	296	102	0.16	0.080679	19.78	1.525	0.338	1.864	2.025	1.101
8.17	8.08	296	102	0.16	0.080818	19.78	1.525	0.338	1.863	2.025	1.101
8.20	8.11	296	102	0.16	0.081105	19.79	1.525	0.338	1.863	2.025	1.101
8.22	8.14	296	102	0.16	0.081392	19.80	1.524	0.338	1.863	2.024	1.100
8.25	8.17	296	102	0.16	0.081679	19.80	1.524	0.338	1.862	2.024	1.100
8.27	8.19	296	102	0.16	0.081887	19.81	1.523	0.338	1.862	2.023	1.100
8.30	8.22	296	101	0.16	0.082174	19.81	1.523	0.341	1.864	2.023	1.103
8.33	8.24	296	101	0.16	0.082391	19.82	1.523	0.341	1.864	2.023	1.102
8.35	8.27	296	101	0.16	0.082669	19.82	1.522	0.344	1.866	2.022	1.105
8.33	8.24	297	102	0.16	0.082391	19.82	1.528	0.338	1.866	2.028	1.102
8.40	8.32	297	101	0.16	0.083173	19.84	1.526	0.344	1.870	2.026	1.107
8.43	8.35	297	101	0.16	0.083450	19.84	1.526	0.344	1.870	2.026	1.107
8.45	8.37	297	101	0.16	0.083668	19.85	1.526	0.344	1.869	2.026	1.107
8.48	8.40	297	101	0.16	0.083955	19.85	1.525	0.344	1.869	2.025	1.106
8.50	8.42	298	101	0.15	0.084163	19.86	1.530	0.347	1.877	2.030	1.112
8.53	8.44	299	101	0.15	0.084381	19.86	1.535	0.347	1.881	2.035	1.114
8.55	8.47	299	101	0.15	0.084658	19.87	1.534	0.347	1.881	2.034	1.114
8.58	8.49	299	101	0.15	0.084876	19.87	1.534	0.347	1.880	2.034	1.114
8.61	8.52	300	101	0.15	0.085163	19.88	1.538	0.347	1.885	2.038	1.116
8.63	8.54	300	101	0.15	0.085370	19.88	1.538	0.350	1.888	2.038	1.119
8.65	8.56	300	101	0.15	0.085588	19.89	1.538	0.350	1.887	2.038	1.118
8.63	8.54	300	101	0.15	0.085370	19.88	1.538	0.347	1.885	2.038	1.116
8.71	8.62	301	100	0.15	0.086152	19.90	1.542	0.352	1.894	2.042	1.123
8.73	8.64	301	100	0.15	0.086370	19.90	1.542	0.352	1.894	2.042	1.123
8.76	8.66	301	100	0.15	0.086647	19.91	1.541	0.352	1.893	2.041	1.123
8.78	8.69	300	100	0.15	0.086934	19.92	1.535	0.352	1.888	2.035	1.120
8.81	8.72	300	100	0.15	0.087221	19.92	1.535	0.352	1.887	2.035	1.120
8.83	8.74	300	100	0.15	0.087429	19.93	1.535	0.352	1.887	2.035	1.120
8.86	8.76	300	100	0.14	0.087647	19.93	1.534	0.355	1.889	2.084	1.122
8.88	8.79	301	100	0.14	0.087864	19.94	1.539	0.355	1.894	2.039	1.125
8.91	8.81	302	100	0.14	0.088142	19.94	1.544	0.355	1.899	2.044	1.127
8,94	8.84	301	100	0.14	0.088429	19.95	1.538	0.355	1.893	2.038	1.124
8.96	8.87	301	100	0.14	0.088716	19.96	1.538	0.355	1.893	2.038	1.124
8.96	8.87	301	100	0.14	0.088716	19.96	1.538	0.355	1.893	2.038	1.124
9.01	8.92	301	100	0.14	0.089210	19.97	1.537	0.358	1.895	2.037	1.126
9.04	8.95	300	100	0.14	0.089497	19.97	1.531	0.358	1.889	2.031	1.123
9.07	8.98	301	100	0.14	0.089784	19.98	1.536	0.358	1.894	2.036	1.126
9.09	9.00	301	100	0.14	0.089992	19.98	1.535	0.358	1.893	2.035	1.126
9.12	9.03	300	99	0.14	0.090279	19.99	1.530	0.361	1.890	2.030	1.126
9.15	9.06	300	99	0.14	0.090566	20.00	1.529	0.361	1.890	2.029	1.125
9.18	9.08	300	99	0.14	0.090843	20.00	1.529	0.361	1.890	2.029	1.125
9.22	9.12	300	99	0.14	0.091200	20.01	1.528	0.361	1.889	2.028	1.125
9.24	9.14	301	99	0.14	0.091417	20.01	1.533	0.361	1.894	2.033	1.127
9.27	9.17	301	99	0.14	0.091695	20.02	1.533	0.363	1.896	2.083	1.130
9.29	9.19	302	99	0.14	0.091912	20.03	1.537	0.363	1.901	2.037	1.132
9.31	9.21	302	99	0.14	0.092130	20.03	1.537	0.363	1.900	2.087	1.132
9.33	9.23	302	99	0.14	0.092338	20.04	1.537	0.363	1.900	2.087	1.132
9,36	9.26	302	99	0.14	0.092625	20.04	1.536	0.363	1.899	2.036	1.131
9.39	9.29	303	99	0.14	0.092912	20.05	1.541	0.363	1.904	2.041	1.134
9.41	9.31	303	99	0.13	0.093120	20.05	1.540	0.366	1.907	2.040	1.136
9.44	9.34	303	99	0.13	0.093407	20.05	1.540	0.366	1.906	2.040	1.136

	Deform.	Celda	Presión	Incremento		Årea	Estuerzo	1,3	a'1	:1	Esfuerzo
Deformación	Unitaria	Corgo	de poros	deporos	Deform.	Corregida	Dervindor	Efectivo	Efectivo	Total	Promedio
frond		N	(kPa)	(kg!/cm*)	No.	(cm²)	(kgt/cm <sup>*</sup> )	(kgl/cm²)	(kgl/cm <sup>*</sup> )	(kgf/cm²)	(kgt/cm <sup>2</sup> )
9.47	9.37	304	99	0.13	0.093694	20.07	1.544	0.366	1.911	2.044	1.138
9.49	9.39	304	99	0.13	0.093902	20.07	1.544	0.366	1.910	2.044	1.138
9.52	9.42	305	99	0.13	0.094189	20.08	1.549	0.369	1.918	2.049	1.143
9.55	9.45	306	99	0.13	0.094476	20.08	1.553	0.369	1.922	2.053	1.146
9.57	9,48	307	99	0.13	0.094753	20.09	1.558	0.369	1.927	2.058	1.148
9.60	9.50	308	99	0.13	0.094970	20.09	1.563	0.369	1.932	2.063	1.150
9.63	9.53	308	99	0.13	0.095257	20.10	1.562	0.369	1.931	2.062	1.150
9.65	9.55	309	98	0.13	0.095535	20.11	1.567	0.372	1.938	2.067	1.155
9.68	9.58	309	98	0.13	0.095752	20.11	1.566	0.372	1.938	2.066	1.155
9.70	9.60	310	98	0.13	0.095960	20.12	1.571	0.372	1.943	2.071	1.157
9.73	9.62	310	98	0.13	0.096247	20.12	1.570	0.372	1.942	2.070	1.157
9.75	9.65	311	98	0.13	0.096465	20.13	1.575	0.372	1.947	2.075	1.159
9.78	9.67	311	98	0.13	0.096742	20.13	1.575	0.372	1.946	2.075	1.159
9.80	9.70	312	98	0.13	0.096960	20.14	1.579	0.372	1.951	2.079	1.161
9.83	9.72	312	98	0.13	0.097247	20.14	1.579	0.375	1.953	2.079	1.164
9.85	9.75	314	98	0.13	0.097455	20.15	1.589	0.375	1.963	2.089	1.169
9.88	9.77	314	98	0.12	0.097742	20.16	1.588	0.377	1.965	2.088	1.171
9.90	9.80	314	98	0.12	0.097959	20.16	1.588	0.377	1.965	2.088	1.171
9.93	9.82	315	98	0.12	0.098236	20.17	1.592	0.377	1.970	2.092	1.174
9.95	9.85	316	98	0.12	0.098454	20.17	1.597	0.377	1.974	2.097	1.176
9.98	9.87	317	98	0.12	0.098741	20.18	1.601	0.377	1.979	2.101	1.178
10.00	9.89	317	98	0.12	0.098949	20.18	1.601	0.380	1.981	2.101	1.181
10.03	9.92	318	98	0.12	0.099236	20.19	1.606	0.380	1.986	2.106	1.183
10.05	9.94	318	98	0.12	0.099444	20.19	1.605	0.377	1.983	2.105	1.180
10.07	9.97	319	98	0.12	0.099662	20.20	1.610	0.380	1.990	2.110	1.185
10.10	9.99	319	98	0.12	0.099949	20.20	1.609	0.380	1.990	2.109	1.185
10.12	10.02	320	98	0.12	0.100156	20.21	1.614	0.380	1.994	2.114	1.187
10.15	10.04	321	97	0.12	0.100443	20.22	1.619	0.383	2.002	2.119	1.192
10.17	10.07	321	97	0.12	0.100661	20.22	1.618	0.383	2.001	2.118	1.192
10.20	10.09	321	97	0.12	0.100938	20.23	1.618	0.383	2.001	2.118	1.192
10.22	10.12	321	97	0.12	0.101156	20.23	1.617	0.383	2.000	2.117	1.192
10.25	10.14	322	97	0.12	0.101443	20.24	1.622	0.383	2.005	2.122	1.194
10.27	10.17	322	97	0.11	0.101651	20.24	1.621	0.386	2.007	2.121	1.196
10.30	10.19	321	97	0.11	0.101938	20.25	1.616	0.386	2.002	2.116	1.194
10.32	10.21	322	97	0.11	0.102146	20.25	1.621	0.386	2.006	2.121	1.196
10.34	10.24	322	97	0.11	0.102363	20.26	1.620	0.386	2.006	2.120	1.196
10.36	10.26	322	97	0.11	0.102571	20.26	1.620	0.389	2.008	2.120	1.198
10.39	10.29	322	97	0.11	0.102858	20.27	1.619	0.386	2.005	2.119	1.195
10.42	10.31	322	97	0.11	0.103076	20.28	1.619	0.389	2.007	2.119	1.198
10.44	10.34	322	97	0.11	0.103353	20.28	1.618	0.389	2.007	2.118	1.198
10.47	10.36	322	97	0.11	0.103571	20.29	1.618	0.389	2.007	2.118	1.198
10.49	10.39	322	97	0.11	0.103858	20.29	1.617	0.389	2.006	2.117	1.197
10.52	10.41	322	96	0.11	0.104066	20.30	1.617	0.391	2.008	2.117	1.200
10.54	10.44	321	96	0.11	0.104353	20.30	1.612	0.391	2.003	2.112	1.197
10.57	10.46	321	96	0.11	0.104570	20.31	1.611	0.391	2.002	2.111	1.197
10.59	10.48	321	96	0.11	0.104778	20.31	1.611	0.394	2.005	2.111	1.199
10.62	10.51	321	96	0.11	0.105065	20.32	1.610	0.391	2.002	2.110	1.196
10.64	10.53	321	96	0.11	0.105273	20.32	1.610	0.394	2.004	2.110	1.199
10.67	10.56	320	96	0.11	0.105629	20.33	1.604	0.394	1.998	2.104	1.196
10.70	10.58	320	96	0.11	0.105847	20.34	1.604	0.394	1.998	2.104	1.196
10.72	10.61	319	96	0.11	0.106134	20.34	1.598	0.394	1.992	2.098	1.193
10.75	10.63	319	96	0.11	0.106342	20.35	1.598	0.394	1.992	2.098	1.193

	Deform.	Celda	Presión	Incremento		Åres	Eriverto	13	a'1	11	Estuerzo
Deformation	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Dervindor	Efectivo	Efectivo	Total	Promedio
(mm)	56	N	(kPa)	(kgt/cm <sup>2</sup> )	Verterie	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kg//cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
10.77	10.66	319	96	0.10	0.106629	20.36	1.597	0.397	1.994	2.097	1.196
10.80	10.68	319	96	0.10	0.106837	20.36	1.597	0.397	1.994	2.097	1.195
10.82	10.71	319	96	0.10	0.107124	20.37	1.597	0.397	1.993	2.097	1.195
10.85	10.73	319	96	0.10	0.107342	20.37	1.596	0.397	1.993	2.096	1.195
10.87	10.75	319	96	0.10	0.107549	20.38	1.596	0.400	1.995	2.096	1.198
10.89	10.78	319	96	0.10	0.107767	20.38	1.595	0.400	1.995	2.095	1.197
10.92	10.81	319	96	0.10	0.108054	20.39	1.595	0.400	1.995	2.095	1.197
10.94	10.83	320	96	0.10	0.108262	20.39	1.600	0.400	1.999	2.100	1.199
10.97	10.85	320	96	0.10	0.108549	20.40	1.599	0.400	1.999	2.099	1.199
10.99	10.88	320	96	0.10	0.108757	20.40	1.599	0.400	1.998	2.099	1.199
11.02	10.90	320	96	0.10	0.109044	20.41	1.598	0.400	1.998	2.098	1.199
11.05	10.93	321	95	0.10	0.109331	20.42	1.603	0.402	2.005	2.103	1.204
11.07	10.95	321	95	0.10	0.109539	20.42	1.602	0.402	2.005	2.102	1.204
11.10	10.98	321	95	0.10	0.109826	20.43	1.602	0.402	2.004	2.102	1.203
11.12	11.00	321	95	0.10	0.110043	20.43	1.601	0.402	2.004	2.101	1.203
11.15	11.03	321	95	0.10	0.110320	20.44	1.601	0.402	2.003	2.101	1.203
11.17	11.05	321	95	0.10	0.110538	20.45	1.600	0.402	2.003	2.100	1.203
11.19	11.07	322	95	0.09	0.110746	20.45	1.605	0.405	2.010	2.105	1.208
11.22	11.10	321	95	0.09	0.111033	20.46	1.600	0.405	2.005	2.100	1.205
11.25	11.13	322	95	0.09	0.111320	20.46	1.604	0.405	2.009	2.104	1.207
11.27	11.15	322	95	0.09	0.111528	20.47	1.604	0.405	2.009	2.104	1.207
11.30	11.18	322	95	0.09	0.111815	20.47	1.603	0.405	2.008	2.103	1.207
11.32	11.20	322	95	0.09	0.112033	20.48	1.603	0.408	2.011	2.103	1.209
11.34	11.22	322	95	0.09	0.112240	20.48	1.602	0.408	2.010	2.102	1.209
11.37	11.25	323	95	0.09	0.112527	20.49	1.607	0.408	2.015	2.107	1.211
11.40	11.28	323	95	0.09	0.112814	20.50	1.606	0.408	2.014	2.106	1.211
11.43	11.31	323	95	0.09	0.113101	20.50	1.606	0.408	2.014	2.106	1.211
11.45	11.33	323	94	0.09	0.113309	20.51	1.605	0.411	2.016	2.105	1.214
11.48	11.36	323	94	0.09	0.113596	20.52	1.605	0.411	2.016	2.105	1.213
11.50	11.38	324	94	0.09	0.113804	20.52	1.609	0.411	2.020	2.109	1.216
11.53	11.41	324	94	0.09	0.114091	20.53	1.609	0.411	2.020	2.109	1.215
11.55	11.43	324	94	0.09	0.114309	20.53	1.609	0.411	2.019	2.109	1.215
11.58	11.46	325	94	0.09	0.114586	20.54	1.613	0.411	2.024	2.113	1.217
11.60	11.48	325	94	0.09	0.114804	20.54	1.613	0.414	2.026	2.113	1.220
11.62	11.50	325	94	0.09	0.115012	20.55	1.612	0.414	2.026	2.112	1.220
11.65	11.53	325	94	0.09	0.115299	20.56	1.612	0.414	2.025	2.112	1.219
11.67	11.55	325	94	0.08	0.115516	20.56	1.611	0.416	2.028	2.111	1.222
11.70	11.58	325	94	0.09	0.115793	20.57	1.611	0.414	2.024	2.111	1.219
11.73	11.61	325	94	0.08	0.116080	20.57	1.610	0.416	2.027	2.110	1.222
11.75	11.63	326	94	0.09	0.116298	20.58	1.615	0.414	2.028	2.115	1.221
11.77	11.65	326	94	0.08	0.116506	20.58	1.614	0.416	2.031	2.114	1.224
11.80	11.68	326	94	0.08	0.116793	20.59	1.614	0.416	2.030	2.114	1.223
11.82	11.70	327	94	0.08	0.117011	20.60	1.619	0.416	2.035	2.119	1.226
11.85	11.73	328	94	0.08	0.117288	20.60	1.623	0.416	2.039	2.123	1.228
11.87	11.75	328	94	0.08	0.117506	20.61	1.623	0.416	2.039	2.123	1.228
11.90	11.78	328	94	0.08	0.117793	20.61	1.622	0.419	2.041	2.122	1.230
11.92	11.80	329	94	0.08	0.118000	20.62	1.627	0.419	2.046	2.127	1.232
11.95	11.82	329	94	0.08	0.118218	20.62	1.626	0.419	2.045	2.126	1.232
11.97	11.84	330	93	0.08	0.118426	20.63	1.631	0.422	2.053	2.131	1.237
12.00	11.87	330	94	0.08	0.118713	20.63	1.630	0.419	2.049	2.130	1.234
12.02	11.89	330	94	0.08	0.118931	20.64	1.630	0.419	2.049	2.130	1.234
12.05	11.92	330	93	0.08	0.119208	20.65	1.629	0.422	2.051	2.129	1.237

	Deform.	Celda	Presión	Incremento		Åres	Enfuerco	a'3	11	11	Estuerzo
Deformación	Unitaria	Carga	de poros	deporos	Deform.	Corregida	Derviedor	Efectivo	Electivo	Total	Promedio
(mm)	8	N	(kPa)	(kgl/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>*</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
12.07	11.94	331	93	0.08	0.119426	20.65	1.634	0.422	2.056	2.134	1,239
12.10	11.97	332	93	0.08	0.119713	20.66	1.638	0.422	2.060	2.138	1.241
12.12	11.99	332	93	0.08	0.119920	20.66	1.638	0.422	2.060	2.138	1.241
12.15	12.02	332	93	0.08	0.120207	20.67	1.637	0.422	2.059	2.137	1.241
12.18	12.05	333	93	0.08	0.120494	20.68	1.642	0.422	2.064	2 142	1 243
12.20	12.07	333	93	0.08	0 120702	20.68	1.641	0.425	2.066	2 141	1 245
12.22	12.09	334	93	0.08	0.120920	20.69	1.646	0.425	2.071	2.146	1.248
12.25	12.12	334	93	0.08	0.121197	20.69	1.645	0.425	2.070	2.145	1 247
12.28	12.15	335	93	0.08	0.121484	20.20	1.650	0.425	2.074	2 150	1 250
13.30	13.17	226	92	0.08	0.121202	30.75	1 640	0.435	2.074	3 149	1 349
12.30	12.20	225	93	0.08	0.121979	20.71	1.654	0.425	2.078	2 154	1 252
12.35	12.22	336	93	0.08	0.122197	20.72	1.653	0.425	2.078	2 153	1 351
13.33	12.24	224	00	0.00	0.100405	30.72	1 650	0.439	2,090	2.152	1 35.4
12.37	10.07	229	00	0.07	0.122400	20.72	1.000	0.420	2.000	2.153	1 954
12,40	40.00	337	33	0.07	0.122002	20.73	1.007	0.420	2.005	2.157	1.230
12.42	12.29	337	33	0.07	0.122909	20.75	1.657	0.428	2.084	2.157	1.256
12.44	12.31	337	33	0.07	0.123117	20.74	1.656	0.428	2.084	2.156	1.256
12.47	12.39	230	30	0.07	0.123404	20.75	1.001	0.420	2.000	2.101	1.00
12.49	12.56	358	93	0.07	0.123622	20.75	1.660	0.430	2.091	2.160	1.261
12.52	12.39	339	93	0.07	0.123899	20.76	1.665	0.428	2.092	2.165	1.260
12.54	12.41	340	93	0.07	0.124117	20.76	1.669	0.430	2.100	2.169	1.265
12.56	12.43	340	93	0.07	0.124325	20.77	1.669	0.430	2.099	2.169	1.265
12.59	12.46	340	93	0.07	0.124612	20.77	1.668	0.430	2.099	2.168	1.265
12.61	12.48	340	92	0.07	0.124829	20.78	1.668	0.433	2.101	2.168	1.267
12.64	12.51	341	93	0.07	0.125106	20.79	1.672	0.430	2.103	2.172	1.266
12.66	12.53	341	92	0.07	0.125324	20.79	1.672	0.433	2.105	2.172	1.269
12.69	12.56	341	92	0.07	0.125611	20.80	1.671	0.433	2.104	2.171	1.269
12.71	12.58	341	92	0.07	0.125819	20.80	1.671	0.433	2.104	2.171	1.269
12.74	12.60	341	92	0.07	0.126037	20.81	1.671	0.433	2.104	2.171	1.268
12.76	12.63	342	92	0.06	0.126324	20.81	1.675	0.436	2.111	2.175	1.273
12.79	12.65	341	92	0.06	0.126532	20.82	1.670	0.436	2.106	2.170	1.271
12.81	12.67	342	92	0.06	0.126749	20.82	1.674	0.436	2.110	2.174	1.273
12.84	12.70	22 34	92	0.06	0.127026	20.83	1.674	0.436	2.109	2.174	1.273
12.86	12.72	342	92	0.06	0.127244	20.84	1.673	0.436	2.109	2.173	1.272
12.89	12.75	343	92	0.06	0.127531	20.84	1.677	0.436	2.113	2.177	1.275
12.91	12.77	343	92	0.06	0.127739	20.85	1.677	0.436	2.113	2.177	1.274
12.93	12.80	34	92	0.06	0.127957	20.85	1.682	0.436	2.117	2.182	1.277
12.96	12.82	344	92	0.06	0.128234	20.86	1.681	0.436	2.117	2.181	1.276
12.98	12.85	344	92	0.06	0.128452	20.87	1.681	0.439	2.119	2.181	1.279
13.00	12.87	344	92	0.06	0.128669	20.87	1.680	0.439	2.119	2.180	1.279
13.03	12.89	344	92	0.06	0.128946	20.88	1.680	0.436	2.116	2.180	1.276
13.06	12.92	345	92	0.06	0.129233	20.88	1.684	0.439	2.123	2.184	1.281
13.07	12.94	345	92	0.06	0.129372	20.89	1.684	0.439	2.122	2.184	1.281
13.10	12.97	345	92	0.06	0.129659	20.89	1.683	0.439	2.122	2.183	1.280
13.12	12.99	345	92	0.06	0.129877	20.90	1.683	0.439	2.121	2.183	1.280
13.14	13.00	345	92	0.06	0.130015	20.90	1.682	0.439	2.121	2.182	1.280
13.16	13.02	345	91	0.06	0.130233	20.91	1,682	0,441	2,123	2,182	1,282
13.18	13.04	345	91	0.06	0.130441	20.91	1,682	0,441	2,123	2,182	1,282
13.21	13.07	345	91	0.06	0.130728	20.92	1.681	0.441	2.123	2.181	1.282
13.23	13.09	346	91	0.06	0.130936	20.93	1,686	0,444	2,130	2 186	1,287
13.26	13.12	346	91	0.06	0.131223	20.93	1,685	0.441	2,126	2,185	1.284
18.29	19.15	2.4.6	91	0.06	0.131510	20.94	1.684	0.444	2 1 2 9	2 184	1 286
13.32	13.18	347	91	0.06	0.131797	20.95	1.689	0,444	2,133	2,189	1,289

	Deform.	Celda	Presión	Incremento		Årea	Estuenco	13	a'1	:1	Esfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Derviedor	Efectivo	Efectivo	Total	Promedio
(mm)	-	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kg(/cm <sup>*</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(last/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
13.34	13.20	347	91	0.06	0.132005	20.95	1.688	0.444	2.133	2.188	1.288
13.37	13.23	347	91	0.06	0.132292	20.96	1.688	0.444	2.132	2.188	1.288
13.39	13.25	347	91	0.06	0.132499	20.96	1.687	0.444	2,132	2.187	1,288
13.42	13.28	348	91	0.06	0.132786	20.97	1.692	0.444	2.136	2.192	1.290
13.44	13.30	348	91	0.05	0.133004	20.98	1.691	0.447	2.138	2 191	1,293
13.47	13.33	348	91	0.05	0.133281	20.98	1.691	0.447	2.138	2,191	1,292
13.49	13.35	348	91	0.05	0.133499	20.99	1.690	0.447	2.137	2.190	1.292
13.52	13.38	348	91	0.05	0.133786	20.99	1,690	0.447	2,137	2,190	1,292
13.54	13.40	348	91	0.05	0.133994	21.00	1.689	0.447	2.136	2,189	1.292
18.57	19.49	348	91	0.05	0.134281	21.01	1.689	0.450	2 1 3 9	2 189	1.294
13.59	13.45	348	91	0.05	0.134499	21.01	1.688	0.450	2.138	2.188	1.294
13.62	13.48	349	91	0.05	0.134776	21.02	1.693	0.447	2.140	2,193	1.293
13.65	13.51	349	91	0.05	0.135063	21.02	1.692	0.450	2.142	2,192	1,296
13.67	13.53	349	91	0.05	0.135280	21.03	1.692	0.450	2.141	2,192	1,296
13.70	13.56	349	91	0.05	0.135557	21.04	1.691	0.450	2 141	2 191	1.295
13.72	13.58	349	91	0.05	0.135775	21.04	1.691	0.450	2.141	2,191	1,295
13.74	13.60	349	90	0.05	0.135983	21.05	1.690	0.453	2.143	2.190	1.298
13.77	13.63	350	90	0.05	0.136270	21.05	1.695	0.453	2.147	2.195	1,900
13.80	13.66	350	90	0.05	0.136557	21.05	1.694	0.453	2.147	2,194	1,300
13.82	13.68	350	90	0.05	0.136765	21.07	1.694	0.453	2.146	2.194	1.299
13.84	13.70	350	90	0.05	0.136983	21.07	1.693	0.453	2.146	2,193	1,299
13.88	13.73	350	90	0.04	0.137339	21.08	1.692	0.455	2.148	2,192	1,302
13.90	1375	350	90	0.05	0.137547	21.09	1.692	0.453	2.145	2 192	1 299
13.93	13.78	350	90	0.04	0 137834	21.09	1.691	0.455	2 147	2 191	1 901
13.95	13.81	349	90	0.05	0.138052	21.10	1.686	0.453	2.139	2.186	1.296
13.98	13.83	349	90	0.04	0.138329	21.10	1.686	0.455	2 141	2 186	1 298
14.01	13.86	349	90	0.04	0.138616	21.11	1.685	0.455	2.141	2.185	1,298
14.04	13.89	349	90	0.04	0.138903	21.12	1.685	0.458	2.143	2 185	1 300
14.06	13.91	349	90	0.04	0.139110	21.12	1.684	0.455	2,140	2.184	1,297
14.09	13.94	349	90	0.04	0.139397	21.13	1.684	0.458	2.142	2.184	1,300
14.11	13.97	349	90	0.04	0.139684	21.14	1.683	0.455	2 138	2 183	1 297
14.14	13.99	349	90	0.04	0.139892	21.14	1.683	0.458	2.141	2.183	1,900
14.16	14.02	849	90	0.04	0.140179	21.15	1.682	0.458	2 140	2 182	1 299
14.19	14.05	350	90	0.04	0.140466	21.16	1.686	0.458	2.145	2.185	1.901
14.21	14.07	350	89	0.04	0.140674	21.16	1.686	0.461	2.147	2.186	1.304
14.24	14.10	350	89	0.04	0.140961	21.17	1.685	0.461	2.146	2 185	1.904
14.27	14.12	350	89	0.04	0.141179	21.17	1.685	0.461	2.146	2.185	1,303
14.29	14.15	350	89	0.04	0.141456	21.18	1.684	0.461	2.145	2 184	1 303
14.32	14.17	351	89	0.04	0.141743	21.19	1.689	0.461	2,150	2,189	1.905
14.34	14.20	351	89	0.04	0.141961	21.19	1.688	0.464	2.152	2.188	1.308
14 37	14.22	351	89	0.04	0.142238	21.20	1.688	0.464	2 151	2 188	1 308
14.40	14.25	351	89	0.04	0.142525	21.21	1.687	0.464	2.151	2.187	1.307
14.43	14.28	351	89	0.04	0 142812	21.22	1.687	0.464	2 150	2 187	1 907
14.45	14.30	351	89	0.04	0.143020	21.22	1.686	0.464	2,150	2.185	1.907
14.48	14.33	351	89	0.04	0.143307	21.23	1,686	0,464	2,149	2,186	1,307
14.51	14.36	351	89	0.04	0.143594	21.23	1.685	0,464	2,149	2,185	1,306
14.54	14.39	350	89	0.03	0.143881	21.24	1,680	0,467	2,146	2,180	1,306
14.56	14.41	351	89	0.04	0.144089	21.25	1.684	0.464	2.148	2.184	1.306
14.59	14.44	351	89	0.03	0.144376	21.25	1,683	0,467	2,150	2,183	1,308
14.61	14.46	350	89	0.03	0.144593	21.26	1,678	0,467	2,145	2,178	1,306
14.63	14.48	350	89	0.03	0.144801	21.26	1,678	0.467	2.144	2,178	1,905
14.66	14.51	350	89	0.03	0.145088	21.27	1.677	0.467	2.144	2.177	1.305

	Deform.	Celda	Presión	incremento		Åren	Estuerzo	13	a'1	=1	Esfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Dervindor	Efectivo	Efectivo	Total	Promedio
(mm)	8	N	(kPa)	(kg//cm <sup>2</sup> )	Uniteria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(lat/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )
14.69	14.54	350	89	0.03	0.145375	21.28	1.677	0.467	2.143	2.177	1.305
14.71	14.56	349	89	0.03	0.145583	21.28	1.671	0.469	2.141	2.171	1.305
14.73	14.58	349	89	0.03	0.145801	21.29	1.671	0.469	2.140	2.171	1.305
14.76	14.61	349	89	0.03	0.146078	21.30	1.671	0.469	2.140	2.171	1.305
14.79	14.64	349	89	0.03	0.146365	21.30	1.670	0.469	2.139	2.170	1.304
14.81	14.66	350	89	0.03	0.146583	21.31	1.674	0.469	2.144	2.174	1.307
14.84	14.69	350	89	0.03	0.146860	21.32	1.674	0.469	2.143	2.174	1.306
14.87	14.71	351	89	0.03	0.147147	21.32	1.678	0.469	2.147	2.178	1.308
14.90	14.74	351	89	0.03	0.147434	21.33	1.677	0.469	2.147	2.177	1.308
14.92	14.76	351	88	0.03	0.147642	21.34	1.677	0.472	2.149	2.177	1.311
14.95	14.79	352	88	0.03	0.147929	21.34	1.681	0.472	2.153	2.181	1.313
14.97	14.81	352	88	0.03	0.148146	21.35	1.681	0.472	2.153	2.181	1.313
15.00	14.84	353	88	0.03	0.148423	21.35	1.685	0.472	2.157	2.185	1.315
15.03	14.87	354	88	0.03	0.148710	21.36	1.689	0.472	2.161	2.189	1.317
15.05	14.89	354	88	0.03	0.148928	21.37	1.689	0.475	2.164	2.189	1.319
15.07	14.91	354	88	0.03	0.149136	21.37	1.688	0.472	2.161	2.188	1.316
15.10	14.94	354	88	0.03	0.149423	21.38	1.688	0.475	2.163	2.188	1.319
15.12	14.96	355	88	0.03	0.149641	21.39	1.692	0.475	2.167	2.192	1.321
15.15	14.99	356	88	0.03	0.149918	21.39	1.696	0.475	2.171	2.196	1.323
15.17	15.01	356	88	0.03	0.150136	21.40	1.696	0.475	2.171	2.196	1.323
15.20	15.04	357	88	0.03	0.150423	21.41	1.700	0.475	2.175	2.200	1.325
15.22	15.06	358	88	0.03	0.150630	21.41	1.704	0.475	2.179	2.204	1.327
15.25	15.09	359	88	0.02	0.150917	21.42	1.709	0.478	2.186	2.209	1.332
15.27	15.11	359	88	0.02	0.151125	21.42	1.708	0.478	2.186	2.208	1.332
15.30	15.14	360	88	0.02	0.151412	21.43	1.712	0.478	2.190	2.212	1.334
15.33	15.17	360	88	0.02	0.151699	21.44	1.712	0.478	2.190	2.212	1.334
15.35	15.19	360	88	0.02	0.151907	21.44	1.711	0.478	2.189	2.211	1.333
15.38	15.22	360	88	0.02	0.152194	21.45	1.711	0.478	2.189	2.211	1.333
15.40	15.24	360	88	0.02	0.152412	21.46	1.710	0.478	2.188	2.210	1.333
15.42	15.26	360	88	0.02	0.152620	21.46	1.710	0.480	2.190	2.210	1.335
15.45	15.29	360	88	0.02	0.152907	21.47	1.709	0.480	2.190	2.209	1.335
15.47	15.31	360	88	0.02	0.153115	21.47	1.709	0.480	2.189	2.209	1.335
15.50	15.34	360	88	0.02	0.153402	21.48	1.708	0.480	2.189	2.208	1.335
15.52	15.36	360	88	0.02	0.153619	21.49	1.708	0.480	2.188	2.208	1.334
15.54	15.38	360	88	0.02	0.153827	21.49	1.708	0.480	2.188	2.208	1.334
15.57	15.41	360	87	0.02	0.154114	21.50	1.707	0.483	2.190	2.207	1.337
15.59	15.43	360	88	0.02	0.154332	21.50	1.707	0.480	2.187	2.207	1.334
15.62	15.46	360	87	0.02	0.154609	21.51	1.706	0.483	2.189	2.206	1.336
15.85	15,49	359	87	0.02	0.154896	21.52	1.701	0.483	2.184	2.201	1.334
15.67	15.51	359	6 <i>1</i>	0.02	0.155114	21.32	1.700	0.483	2.183	2.200	1.333
15.70	15.54	359	87	0.02	0.155391	21.53	1.700	0.483	2.183	2.200	1.353
15.72	15.30	358	67	0.02	0.155609	21.34	1.034	0.483	2.178	2.134	1.331
15.74	15.58	359	87	0.01	0.155816	21.54	1.699	0.485	2.185	2.199	1.335
15.77	15.61	308	67 67	0.02	0.156103	21.35	1.093	0.483	2.177	2.133	1.020
15.00	10.04	323	0/ 07	0.02	0.156390	21.30	1.030	0.463	2.101	2.128	4,000
15.62	15.00	326	0/ 97	0.02	0.150098	21.55	1,692	0.465	2,170	2,102	1,222
15.00	15.00	320	07 97	0.01	0.157109	21.57	1,691	0,400	2,170	2.132	1.002
45.00	46.74	90.0	07 07	0.01	0.157200	34.00	1.004	0.400	3 4 7 7	3 404	1 020
15.90	15.74	320	87	0.01	0.157560	31 66	1,600	0.490	2 177	2 191	1 994
10.00	15 70	900	97	0.01	0.157995	21.50	1,600	0,496	3 176	2 100	1 001
15.97	15.81	358	87	0.01	0.158093	21.60	1,690	0,486	2.176	2,190	1,331

	Deform.	Celda	Presiden	Incremento		Åres	Erfuerro	13	a'1	=1	Estuerzo
Deformación	Unitaria	Carga	de poros	deportos	Deform.	Correction	Dervindor	lfectivo	Electivo	Total	Promedio
(mm)	5	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(lat/cm <sup>2</sup> )	Bertlem <sup>2</sup> )
16.00	15.84	35.8	87	0.01	0.158380	21.61	1689	0.486	2 175	2 189	1 331
16.03	15.86	358	87	0.01	0.158597	21.61	1688	0.489	2 177	2 188	1 933
16.05	15.99	200	97	0.01	0.150005	31.63	1.000	0.499	3 1 7 7	3 199	1 999
16.09	15.00	329	97	0.01	0.150000	21.02	1.000	0.499	2.176	2.100	1.333
10.00	10.91	220	07	0.01	0.155092	21.00	1.007	0.403	2.170	2.407	1.333
16.10	15.93	320	0/ 97	0.01	0.155500	21.00	1.00/	0.402	2.1/0	2.107	1.004
10.13	15.30	300	97	0.01	0.100007	21.09	1.001	0.403	2.100	2.191	1.004
10.13	13.90	333	07	0.01	0.100000	21.04	1.001	0.403	2.100	2.191	1.334
10.10	10.01	222	0/ 07	0.01	0.100002	21.00	1,000	0.403	2.172	2.150	1.004
16.20	10.04	333	0/	0.01	0.100000	21.00	1.000	0.465	2.1/0	2.150	1.334
16.23	16.06	360	8/	0.01	0.150587	21.65	1.694	0.489	2.183	2.194	1.338
10.20	10,00	200	00	0.01	0.100/35	21.07	1.093	0.492	2.105	2.193	1.330
15.28	16.11	360	85	0.01	0.161082	21.68	1.693	0.492	2.185	Z.193	1.338
15.30	16.13	360	85	0.01	0.151289	21.68	1.692	0.492	2.184	2.192	1.338
16.33	18.18	350	85	0.01	0.161576	21.69	1.692	0.492	2.184	2.192	1.338
16.36	16.19	361	86	0.01	0.161863	21.70	1.696	0.492	2.188	2.196	1.340
16.38	16.21	361	86	0.01	0.162081	21.70	1.696	0.492	2.187	2.196	1.339
16.41	16.24	361	86	0.01	0.162358	21.71	1.695	0.492	2.187	2.195	1.339
16.43	16.26	362	86	0.01	0.162576	21.72	1.699	0.492	2.191	2.199	1.341
16.46	16.29	362	86	0.01	0.162863	21.72	1.699	0.494	2.193	2.199	1.344
16.48	16.31	362	86	0.01	0.163071	21.73	1.698	0.492	2.190	2.198	1.341
16.51	16.34	362	86	0.01	0.163358	21.74	1.698	0.494	2.192	2.198	1.343
16.54	16.36	362	86	0.01	0.163645	21.74	1.697	0.494	2.192	2.197	1.343
16.56	16.39	363	86	0.01	0.163853	21.75	1.701	0.494	2.196	2.201	1.345
16.59	16.41	363	86	0.01	0.164140	21.76	1.701	0.494	2.195	2.201	1.345
16.61	16.43	363	86	0.01	0.164347	21.76	1.700	0.494	2.195	2.200	1.345
16.64	16.46	363	86	0.01	0.164635	21.77	1.700	0.494	2.194	2.200	1.344
16.66	16.49	364	86	0.01	0.164852	21.77	1.704	0.494	2.198	2.204	1.346
16.69	16.51	364	86	0.00	0.165129	21.78	1.703	0.497	2.201	2.203	1.349
16.71	16.53	364	86	0.01	0.165347	21.79	1.703	0.494	2.197	2.203	1.346
16.74	16.56	364	86	0.00	0.165634	21.80	1.702	0.497	2.200	2.202	1.348
16.76	16.58	365	86	0.00	0.165842	21.80	1.707	0.497	2.204	2.207	1.351
16.78	16.61	365	86	0.00	0.166060	21.81	1.706	0.497	2.203	2.206	1.350
16.81	16.63	365	86	0.00	0.166337	21.81	1,706	0,497	2.203	2.206	1.350
16.83	16.66	365	86	0.00	0.166555	21.82	1,705	0,497	2,202	2.205	1.350
16.86	16.68	365	86	0.00	0.166842	21.83	1.705	0.497	2.202	2.205	1.350
16.88	16.70	365	86	0.00	0.167049	21.83	1,704	0.500	2.204	2.204	1.952
16.91	16.73	365	86	0.00	0.167336	21.84	1,704	0.500	2.204	2.204	1,952
16.93	16.76	365	86	0.00	0.167554	21.85	1 703	0.497	2 200	2 203	1 949
16.96	16.78	365	86	0.00	0.167831	21.85	1 703	0.500	2.203	2 203	1 951
16.98	16.80	365	86	0.00	0.168049	21.86	1 702	0.500	2 202	2 202	1 951
17.01	16.83	365	86	0.00	0.168336	21.87	1 702	0.500	2 202	2 202	1 951
17.03	16.85	366	86	0.00	0.168544	21.87	1706	0.500	2 206	2 206	1953
17.05	16.00	300	90	0.00	0.100707	31.00	1 205	0.500	2.202	3 3/15	1 000
17.09	16.00	200	92	0.00	0.100702	21.00	1.700	0.505	2.209	2,205	1.050
17.50	16.00	300	90	0.00	0.100000	21.00	1.700	0.500	2.205	2.205	1.050
17.10	10.33	300	00	0.00	0.100230	21.00	4.704	0.000	0.000	2.204	1.302
17.12	10.30	300	00 07	0.00	0.103474	21.30	4,704	0.505	2.207	2.004	1.300
17.15	13.00	200	60 90	0.00	0.109/51	21.90	1.703	0.505	2.200	2,203	1.359
17.17	17,000	200	60	0.00	0.103903	21.31	4.703	0.303	0.000	2.203	1.359
17.20	17.03	355	65	0.00	0.170256	21.92	1.702	0.505	2.205	2.202	1.354
17.22	17.05	367	65	0.00	0.170464	21.92	1./0/	0.503	2.209	2.201	1.356
1/.25	17.08	367	85	0.00	0.170751	21.93	1.706	0.503	2.209	2.206	1.356
17.27	17.10	366	85	0.00	0.170959	21.94	1.701	0.503	2.204	2.201	1.353

	Deform.	Celda	Presiden	Incremento		Åres	Estuento	a'3	a'1	=1	Estuerzo
Deformación	Unitaria	Carga	de poros	deporos	Deform.	Corregida	Desviedor	Bectivo	Electivo	Total	Promedio
(mm)	<b>%</b>	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgl/cm <sup>2</sup> )	(kg(/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(ket/cm <sup>2</sup> )
17.30	17.12	367	85	-0.01	0.171246	21.94	1,705	0.506	2.210	2.205	1.358
17.33	17.15	367	85	-0.01	0.171463	21.95	1,704	0.506	2.210	2.204	1,358
17.35	17.17	367	85	-0.01	0.171671	21.95	1.704	0.506	2 210	2.204	1,958
17.38	17.20	367	85	-0.01	0.171958	21.96	1,703	0.506	2.209	2,203	1.357
17.40	17.22	368	85	-0.01	0.172166	21.97	1 708	0.506	2.213	2 208	1 959
17.43	17.25	368	85	-0.01	0.172453	21.97	1,707	0.506	2,213	2.207	1,359
17.45	17.27	369	85	-0.01	0.172671	21.98	1.711	0.506	2.217	2.211	1.361
17.48	17.29	369	85	-0.01	0.172948	21.99	1,711	0.506	2,216	2.211	1.961
17.50	17.32	369	85	-0.01	0.173166	21.99	1,710	0.506	2.216	2,210	1.961
17.52	17.34	369	85	-0.01	0 173383	22.00	1 710	0.508	2 218	2 210	1 363
17.55	17.37	369	85	-0.01	0.173660	22.01	1 709	0.508	2 218	2 209	1 363
17.58	17.39	370	85	-0.01	0.173947	22.01	1,713	0.508	2.222	2,213	1.365
17.60	17.42	370	85	-0.01	0.174165	22.02	1 713	0.508	2 221	2 213	1 365
17.63	17.44	371	85	-0.01	0.174442	22.03	1,717	0.508	2.225	2.217	1.967
17.65	17.47	371	85	-0.01	0.174660	22.03	1 716	0.508	2 2 2 5	2 216	1 967
17.67	17.49	371	85	-0.01	0 174868	22.04	1 716	0.508	2 224	2 216	1 366
17,70	17,52	372	85	-0.01	0.175155	22.05	1,720	0.508	2.228	2.220	1.368
17.73	17.54	872	84	-0.01	0.175442	22.05	1 719	0.511	2.281	2 219	1 971
17.75	17.56	372	84	-0.01	0.175650	22.06	1 719	0.511	2 2 3 0	2 219	1 971
17.78	17.59	373	84	-0.01	0.175937	22.07	1 723	0.511	2 2 3 4	2 223	1 979
17.80	17.62	373	84	-0.01	0.176154	22.07	1 7 2 3	0.511	2.284	2 223	1 972
17.82	17.64	374	84	-0.01	0.176362	22.08	1 727	0.511	2 238	2 227	1 975
17.05	17.00	074	9.4	-0.01	0.170040	33.00	1.736	0.511	3 3 3 7	3 336	1 074
17.87	17.69	374	84	-0.01	0.176867	22.09	1 726	0.511	2 287	2 226	1 374
17.89	17.71	374	84	-0.01	0.172025	22.10	1 725	0.511	2.236	2 225	1 974
17.03	17.74	274	94	-0.01	0.177963	33.11	1 776	0.514	2 220	3 335	1 976
17.94	17.76	375	84	-0.01	0.177570	22.11	1 729	0.511	2 240	2 229	1 376
17.97	17.79	875	84	-0.01	0.177857	22.12	1 728	0.514	2.242	2 228	1 978
17.99	17.81	376	84	-0.01	0.178074	22.13	1 732	0.514	2.246	2 232	1 380
18.01	17.83	375	84	-0.01	0.178282	22.13	1 727	0.514	2 241	2 227	1 378
18.04	17.85	375	84	-0.01	0.178500	22.14	1 7 2 7	0.514	2.241	2 227	1 977
18.05	17.87	375	84	-0.01	0.178708	22.14	1 726	0.514	2 240	2 226	1 977
19.00	17.00	375	94	-0.01	0.170005	22.45	1.736	0.514	2.240	2.226	1.077
19.11	17.00	373	94	-0.01	0.170393	22.15	1.720	0.514	2.240	2.220	1.377
18 13	17.94	377	84	-0.02	0.179420	22.16	1734	0.517	2 251	2 234	1 384
10.16	17.07	377	94	-0.03	0.179707	22.17	1 722	0.517	2.350	3 399	1 393
18.18	17.99	378	84	-0.01	0.179915	22.17	1 738	0.514	2 252	2 238	1 383
10.31	19.00	370	0.4	-0.03	0.190000	33.58	4 797	0.517	2.264	3 397	1 000
19.22	19.04	370	94	-0.02	0.100202	22.10	1.737	0.517	2.224	2.237	1.303
18.25	18.07	378	84	-0.02	0.180697	22.20	1.736	0.517	2.253	2 236	1 985
10.20	10.00	370	0.4	-0.02	0.100015	22.20	1 740	0.517	2.367	2.240	1 397
10.20	10.00	3/3	04	-0.02	0.100915	22.20	1.740	0.517	2.257	2.240	1.307
40.30	10.11	575	04	-0.02	0.101103	22.21	4,756	0.517	5 55.5	5,555	1.303
10.30	10.19	3/3	04	-0.02	0.181410	22.22	4 740	0.517	2.220	2.239	1.000
18 39	18.17	280	84	-0.02	0.181814	22.22	1.743	0.517	2.200	2,243	1 999
10.44	40.00	200	0.0	-0.02	0.101914	33.54	4,323	0.000	3.363	0.040	1 300
10.41	19.24	201	95	-0.02	0.102192	33.24	1.742	0.520	1 366	2.292	1 391
10.43	18.29	201	04 94	-0.02	0.182605	22.29	1.740	0.520	2,200	2.290	1 999
10.40	10.27	301	04	-0.02	0.102000	22.23	4,750	0.517	1.101	1,090	1,003
10.40	10.23	202	04	-0.02	0.102304	22.20	1.750	0.520	2.203	2.250	1,004
10.31	10.32	202	04	-0.02	0.102121	22.20	4.240	0.220	5.203	5.293	4,004
10.33	10.39	204	64 0-4	-0.02	0.103039	22.22	1.749	0.520	2.200	2.293	1,004
10.33	10.30	304	0.4	-0.02	0.10201/	44.40	4.740	0.520	6.600	6.690	1.334

	Deform.	Celda	Presión	Incremento		Åres	Erfeetto	13	a'1	=1	Estuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Dervindor	Efectivo	Efectivo	Total	Promedio
(mm)	26	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgt/cm²)	(kgl/cm <sup>2</sup> )	(lat/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )
18.58	18.39	382	84	-0.02	0.183904	22.28	1.747	0.520	2.267	2.247	1.393
18.61	18.42	383	84	-0.02	0.184181	22.29	1.751	0.520	2.271	2.251	1.395
18.63	18.43	383	84	-0.02	0.184329	22.29	1.751	0.520	2.271	2.251	1.395
18.65	18.46	384	83	-0.02	0.184606	22.30	1.755	0.522	2.277	2.255	1.400
18.68	18.48	384	83	-0.02	0.184824	22.31	1.755	0.522	2.277	2.255	1.400
18.70	18.51	384	83	-0.02	0.185111	22.32	1.754	0.522	2.276	2.254	1.399
18.73	18.54	385	84	-0.02	0.185388	22.32	1.758	0.520	2.278	2.258	1.399
18.75	18.56	385	83	-0.02	0.185606	22.33	1.758	0.522	2.280	2.258	1.401
18.78	18.58	386	83	-0.02	0.185824	22.34	1.762	0.522	2.284	2.262	1.403
18.80	18.61	386	83	-0.02	0.186101	22.34	1.761	0.522	2.283	2.261	1.403
18.83	18.64	386	83	-0.02	0.186388	22.35	1.760	0.522	2.283	2.260	1.403
18.86	18.66	386	83	-0.02	0.185505	22.36	1.760	0.522	2.282	2.260	1.402
18.88	18.69	386	83	-0.02	0.186883	22.36	1.759	0.522	2.282	2.259	1.402
18.91	18.72	387	83	-0.02	0.187170	22.37	1.763	0.522	2.286	2.263	1.404
18.93	18.74	387	83	-0.03	0.187387	22.38	1.763	0.525	2.288	2.263	1.405
18.96	18.77	387	83	-0.02	0.187665	22.39	1.762	0.522	2.285	2.262	1.403
18.98	18.79	387	83	-0.02	0.187882	22.39	1.762	0.522	2.284	2.262	1.403
19.01	18.82	387	83	-0.03	0.188169	22.40	1.761	0.525	2.286	2.261	1.406
19.04	18.84	387	83	-0.03	0.188446	22.41	1.761	0.525	2.286	2.261	1.405
19.06	18.87	386	83	-0.03	0.188664	22.41	1.755	0.525	2.281	2.255	1.403
19.09	18.90	386	83	-0.03	0.188951	22.42	1.755	0.525	2.280	2.255	1.403
19.12	18.92	386	83	-0.03	0.189228	22.43	1.754	0.525	2.279	2.254	1.402
19.15	18.95	386	83	-0.03	0.189515	22.44	1.754	0.525	2.279	2.254	1.402
19.17	18.97	387	83	-0.03	0.189733	22.44	1.758	0.525	2.283	2.258	1.404
19.20	19.00	386	83	-0.03	0.190010	22.45	1.753	0.525	2.278	2.253	1.401
19.23	19.03	387	83	-0.03	0.190297	22.46	1.756	0.525	2.282	2.256	1.403
19.25	19.05	387	83	-0.03	0.190515	22.47	1.756	0.525	2.281	2.256	1.403
19.28	19.08	387	83	-0.03	0.190792	22.47	1.755	0.525	2.281	2.255	1.403
19.31	19.11	387	83	-0.03	0.191079	22.48	1.755	0.525	2.280	2.255	1.402
19.33	19.13	387	83	-0.03	0.191297	22.49	1.754	0.528	2.282	2.254	1.405
19.36	19.16	387	83	-0.03	0.191574	22.49	1.754	0.528	2.282	2.254	1.405
19.39	19.19	387	83	-0.03	0.191861	22.50	1.753	0.528	2.281	2.253	1.404
19.42	19.21	387	83	-0.03	0.192148	22.51	1.752	0.528	2.280	2.252	1.404
19.44	19.24	387	83	-0.03	0.192356	22.52	1.752	0.528	2.280	2.252	1.404
19.47	19.26	387	82	-0.03	0.192643	22.52	1.751	0.531	2.282	2.251	1.406
19.49	19.29	387	83	-0.03	0.192860	22.53	1.751	0.528	2.279	2.251	1.403
19.52	19.31	387	83	-0.03	0.193138	22.54	1.750	0.528	2.278	2.250	1.403
19.54	19.34	388	82	-0.03	0.193425	22.55	1.754	0.531	2.285	2.254	1.408
19.57	19.37	387	82	-0.03	0.193712	22.55	1.749	0.531	2.280	2.249	1.405
19.59	19.39	387	82	-0.03	0.193919	22.56	1.749	0.531	2.279	2.249	1.405
19.62	19.42	388	82	-0.03	0.194206	22.57	1.753	0.531	2.283	2.253	1.407
19.65	19.45	387	82	-0.03	0.194493	22.58	1.747	0.531	2.278	2.247	1.404
19.67	19.47	387	82	-0.03	0.194701	22.58	1.747	0.531	2.278	2.247	1.404
19.70	19.50	387	82	-0.03	0.194988	22.59	1.746	0.531	2.277	2.246	1.404
19.73	19.53	387	82	-0.03	0.195275	22.60	1.746	0.533	2.279	2.246	1.406
19.75	19.55	387	82	-0.03	0.195483	22.60	1.745	0.531	2.276	2.245	1.403
19.77	19.57	386	82	-0.03	0.195701	22.61	1.740	0.531	2.271	2.240	1.401
19.80	19.60	387	82	-0.03	0.195988	22.62	1.744	0.531	2.275	2.244	1.403
19.83	19.63	387	82	-0.03	0.196265	22.63	1.744	0.533	2.277	2.244	1.405
19.85	19.65	387	82	-0.03	0.196483	22.63	1.743	0.533	2.277	2.243	1.405
19.88	19.68	387	82	-0.03	0.196770	22.64	1.742	0.531	2.273	2.242	1.402
19.91	19.70	386	82	-0.03	0.197047	22.65	1.737	0.533	2.271	2.237	1.402

	Deform.	Celda	Presión	incremento		Åres	Estuerzo	13	a'1	=1	Estuerzo
Deformation	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Dervision	Electivo	Efectivo	Total	Promedio
(man)	26	N	(kPa)	(kg!/cm*)		(cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgt/cm²)	(kg(/cm²)	(kgi/cm²)	(kgt/cm <sup>2</sup> )
19.94	19.73	387	82	-0.03	0.197334	22.66	1.741	0.533	2.275	2.241	1.404
19.96	19.76	387	82	-0.03	0.197552	22.66	1.741	0.533	2.274	2.241	1.404
19.99	19.78	387	82	-0.03	0.197829	22.67	1.740	0.533	2.274	2.240	1.404
20.01	19.80	387	82	-0.03	0.198046	22.68	1.740	0.533	2.273	2.240	1.403
20.04	19.83	386	82	-0.03	0.198333	22.68	1.735	0.533	2.268	2.235	1.401
20.06	19.85	387	82	-0.04	0.198541	22.69	1.739	0.536	2.275	2.239	1.406
20.08	19.88	386	82	-0.03	0.198759	22.70	1.734	0.533	2.267	2.234	1.400
20.11	19.90	387	82	-0.04	0.199046	22.70	1.738	0.536	2.274	2.238	1.405
20.14	19.93	387	82	-0.04	0.199323	22.71	1.737	0.536	2.273	2.237	1.405
20.16	19.95	385	82	-0.03	0.199541	22.72	1.732	0.533	2.265	2.232	1.399
20.19	19.98	387	82	-0.04	0.199828	22.73	1.736	0.536	2.272	2.236	1.404
20.21	20.00	387	82	-0.04	0.200036	22.73	1.735	0.536	2.272	2.235	1.404
20.24	20.03	387	82	-0.04	0.200823	22.74	1.735	0.536	2.271	2.235	1.404
20.26	20.05	387	82	-0.04	0.200530	22.75	1.734	0.536	2.271	2.234	1.403
20.28	20.07	388	82	-0.04	0.200748	22.75	1.738	0.539	2.277	2.238	1.408
20.31	20.10	388	82	-0.04	0.201035	22.76	1.738	0.536	2.274	2.238	1.405
20.34	20.13	388	82	-0.04	0.201312	22.77	1.737	0.536	2.273	2.237	1.405
20.36	20.15	388	82	-0.04	0.201530	22.78	1.737	0.536	2.273	2.237	1.405
20.39	20.17	388	82	-0.04	0.201748	22.78	1.736	0.539	2.275	2.236	1.407
20.41	20.20	38	82	-0.04	0.201956	22.79	1.736	0.539	2.275	2.236	1.407
20.44	20.22	388	82	-0.04	0.202243	22.80	1.735	0.539	2.274	2.235	1.407
20.46	20.25	388	82	-0.04	0.202450	22.80	1.735	0.539	2.274	2.235	1.406
20.48	20.27	388	82	-0.04	0.202668	22.81	1.734	0.539	2.273	2.234	1.406
20.50	20.29	388	82	-0.04	0.202876	22.81	1.734	0.539	2.273	2.234	1.406
20.53	20.32	388	82	-0.04	0.203163	22.82	1.733	0.539	2.272	2.233	1.406
20.56	20.35	388	82	-0.04	0.203450	22.83	1.732	0.539	2.271	2.232	1.405
20.58	20.37	388	82	-0.04	0.203658	22.84	1.732	0.539	2.271	2.232	1.405
20.60	20.39	388	81	-0.04	0.203876	22.84	1.732	0.542	2.273	2.232	1.408
20.62	20.41	388	82	-0.04	0.204093	22.85	1.731	0.539	2.270	2.231	1.405
20.65	20.44	388	81	-0.04	0.204370	22.86	1.730	0.542	2.272	2.230	1.407
20.68	20.47	388	81	-0.04	0.204657	22.86	1.730	0.542	2.272	2.230	1.407
20.70	20.49	388	81	-0.04	0.204875	22.87	1.729	0.542	2.271	2.229	1.406
				Bapa	de falla seg	pundo incre	mento				
	Deform.	Celda	Presión	Incremento		Åres	Estuerzo	:13	a'1	:1	Esfuerzo
Derormacion (mm)	Unitaria	Cargo	de poros	deporos	Detorm.	Corregida	Desviedor	Electivo	Efectivo	Total	Promedio
(mm)	8	N	(kPa)	(kg//cm <sup>2</sup> )	Verterie	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(lqt/cm²)	(kgt/cm <sup>2</sup> )	(kgi/cm²)	(kgf/cm <sup>2</sup> )
0.00	0.00	0	108	0.00	0.0000000	18.09	0.000	1.000	1.000	1.000	1.000
0.02	0.02	23	110	0.01	0.000210	18.09	0.130	0.989	1.118	1.130	1.054
0.05	0.05	42	111	0.02	0.000500	18.10	0.225	0.978	1.203	1.225	1.090
0.07	0.07	52	112	0.03	0.000710	18.10	0.293	0.967	1.259	1.293	1.113
0.09	0.09	61	113	0.05	0.000930	18.10	0.343	0.953	1.295	1.343	1.124
0.12	0.12	69	114	0.06	0.001219	18.11	0.388	0.941	1.330	1.388	1.136
0.14	0.14	77	115	0.07	0.001429	18.11	0.433	0.930	1.364	1.433	1.147
0.17	0.17	83	116	0.08	0.001719	18.12	0.467	0.919	1.386	1.467	1.153
0.19	0.19	89	118	0.09	0.001929	18.12	0.501	0.908	1.409	1.501	1.158
0.22	0.22	94	119	0.10	0.002219	18.13	0.529	0.897	1.425	1.529	1.161
0.24	0.24	99	120	0.11	0.002439	18.13	0.557	0.886	1.442	1.557	1.164
0.27	0.27	104	121	0.13	0.002719	18.14	0.585	0.875	1.459	1.585	1.167
0.29	0.29	109	122	0.13	0.002939	18.14	0.612	0.866	1.479	1.612	1.172
0.32	0.32	114	123	0.14	0.003228	18.15	0.640	0.858	1.498	1.640	1.178
0.34	0.34	118	124	0.15	0.003438	18.15	0.663	0.847	1.509	1.663	1.178
0.37	0.37	123	125	0.16	0.003658	18.15	0.691	0.838	1.529	1.691	1.184

	Deform.	Celda	Presión	incremento		Årea	Estuerzo	:3	a'1	=1	Estuerzo
Deformation	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Dervindor	Efectivo	Bectivo	Total	Promedio
frand	8	N	(kPa)	(kg//cm*)	Contraction of the	(cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgl/cm²)	(kg(/cm*)	(kgi/cm²)	(kgt/cm <sup>2</sup> )
0.40	0.39	127	126	0.17	0.003948	18.16	0.713	0.827	1.540	1.713	1.184
0.42	0.42	131	127	0.18	0.004228	18.15	0.735	0.816	1.551	1.735	1.184
0.45	0.44	135	127	0.19	0.004448	18.17	0.757	0.810	1.568	1.757	1.189
0.47	0.47	139	128	0.20	0.004658	18.17	0.780	0.799	1.579	1.780	1.189
0.50	0.49	143	129	0.21	0.004948	18.18	0.802	0.791	1.593	1.802	1.192
0.52	0.52	146	130	0.22	0.005168	18.18	0.819	0.783	1.601	1.819	1.192
0.55	0.54	149	131	0.23	0.005447	18.19	0.835	0.774	1.609	1.835	1.192
0.57	0.57	153	132	0.23	0.005667	18.19	0.857	0.766	1.623	1.857	1.195
0.60	0.60	156	133	0.24	0.005957	18.20	0.874	0.758	1.631	1.874	1.194
0.62	0.62	159	134	0.25	0.006167	18.20	0.891	0.749	1.640	1.891	1.194
0.65	0.65	162	134	0.26	0.006457	18.21	0.907	0.741	1.648	1.907	1.194
0.67	0.67	164	135	0.26	0.006677	18.21	0.918	0.735	1.653	1.918	1.194
0.70	0.70	167	135	0.27	0.006957	18.21	0.935	0.730	1.664	1.935	1.197
0.72	0.72	170	136	0.28	0.007177	18.22	0.951	0.721	1.672	1.951	1.197
0.75	0.75	173	137	0.29	0.007467	18.22	0.968	0.713	1.681	1.968	1.197
0.78	0.77	176	138	0.29	0.007746	18.23	0.984	0.707	1.692	1.984	1.199
0.80	0.80	179	138	0.30	0.007966	18.23	1.001	0.702	1.703	2.001	1.202
0.82	0.82	182	139	0.30	0.008176	18.24	1.017	0.695	1.713	2.017	1.205
0.85	0.85	185	140	0.31	0.008466	18.24	1.034	0.688	1.722	2.034	1.205
0.87	0.87	188	140	0.32	0.008686	18.25	1.050	0.682	1.733	2.050	1.207
0.90	0.90	190	141	0.32	0.008966	18.25	1.061	0.677	1.738	2.061	1.207
0.92	0.92	193	141	0.33	0.009186	18.26	1.078	0.671	1.749	2.078	1.210
0.95	0.95	195	142	0.33	0.009476	18.26	1.089	0.665	1,754	2.089	1.210
0.97	0.97	197	142	0.34	0.009685	18.27	1.099	0.660	1.759	2.099	1.210
0.99	0.99	200	143	0.35	0.009905	18.27	1.116	0.654	1.770	2.116	1.212
1.02	1.02	202	144	0.35	0.010195	18.27	1.127	0.649	1.776	2.127	1.212
1.04	1.04	204	144	0.36	0.010405	18.28	1.138	0.643	1.781	2.138	1.212
1.07	1.07	206	144	0.36	0.010695	18.28	1.149	0.640	1,789	2.149	1.215
1.09	1.09	208	145	0.37	0.010905	18.29	1.159	0.635	1.794	2.159	1.215
1.12	1.12	211	145	0.37	0.011195	18.29	1.176	0.629	1.805	2.176	1.217
1.14	1.14	212	146	0.37	0.011415	18.30	1.181	0.627	1.808	2.181	1.217
1.17	1.17	215	146	0.38	0.011695	18.30	1.197	0.621	1.818	2.197	1.220
1.19	1.19	217	147	0.38	0.011914	18.31	1.208	0.615	1.824	2.208	1.220
1.22	1.22	219	147	0.39	0.012204	18.31	1.219	0.613	1.832	2.219	1.222
1.24	1.24	221	147	0.39	0.012414	18.32	1.230	0.610	1.840	2.230	1.225
1.27	1.27	223	148	0.40	0.012704	18.32	1.241	0.604	1.845	2.241	1.225
1.29	1.29	225	148	0.40	0.012914	18.32	1.252	0.601	1.853	2.252	1.227
1.31	1.31	227	149	0.40	0.013134	18.33	1.262	0.596	1.858	2.262	1.227
1.34	1.34	229	149	0.41	0.013424	18.33	1.273	0.593	1.866	2.273	1.230
1.37	1.37	231	149	0.41	0.013704	18.34	1.284	0.590	1.874	2.284	1.232
1.39	1.39	233	150	0.41	0.013924	18.34	1.295	0.588	1.882	2.295	1.235
1.42	1.41	235	150	0.42	0.014143	18.35	1.306	0.585	1.890	2.306	1.238
1.44	1.44	237	151	0.42	0.014423	18.95	1.316	0.579	1,896	2,316	1,237
1.47	1.47	238	151	0.42	0.014713	18.36	1.322	0.576	1.898	2.322	1.237
1.49	1.49	240	151	0.43	0.014933	18.36	1.332	0.574	1.906	2.332	1.240
1.52	1.52	242	151	0.43	0.015213	18.37	1.343	0.571	1.914	2.343	1.242
1.54	1.54	244	152	0.43	0.015433	18.37	1.354	0.568	1.922	2.354	1.245
1.57	1.56	245	152	0.43	0.015643	18.38	1.359	0.565	1.924	2.359	1.245
1.59	1.59	248	152	0.44	0.015933	18.38	1.375	0.562	1.938	2.375	1.250
1.62	1.62	249	152	0.44	0.016152	18.39	1.381	0.560	1.940	2.381	1.250
1.64	1.64	251	153	0.44	0.016432	18.39	1.391	0.557	1.948	2.391	1.252
1.67	1.67	252	153	0.45	0.016652	18.39	1.397	0.554	1.951	2.397	1.252

	Deform.	Celda	Presión	Incremento		Årea	Estuerzo	:3	a'1	s1	Estuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Dervision	Electivo	Efectivo	Total	Promedio
(mm)	56	N	(kPa)	(kg//cm <sup>*</sup> )	Uniteria	(cm <sup>2</sup> )	(kg(/cm <sup>*</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(ket/cm <sup>2</sup> )
1.70	1.69	254	153	0.45	0.016942	18.40	1.407	0.551	1.958	2.407	1.255
1.72	1.72	256	154	0.45	0.017152	18.40	1.418	0.549	1.966	2.418	1.257
1.75	1.74	258	154	0.45	0.017442	18.41	1.429	0.549	1.977	2.429	1,263
1.77	1.77	259	154	0.45	0.017662	18.41	1.434	0.546	1,980	2.434	1.263
1.80	1.79	260	154	0.46	0.017942	18.42	1.439	0.543	1.982	2.439	1,262
1.82	1.82	262	154	0.46	0.018162	18.42	1.450	0.540	1,990	2.450	1.265
1.85	1.85	263	154	0.46	0.018451	18.43	1.455	0.540	1.995	2.455	1.268
1.87	1.87	264	155	0.46	0.018661	18.43	1.460	0.537	1,997	2,460	1.267
1.90	1.90	266	155	0.47	0.018951	18.44	1.471	0.535	2.005	2.471	1.270
1.92	1.92	267	155	0.47	0.019161	18.44	1.476	0.535	2.010	2,476	1.272
1.94	1.94	268	155	0.47	0.019381	18.45	1.481	0.532	2.013	2.481	1,272
1.97	1.97	270	155	0.47	0.019671	18.45	1.492	0.532	2.023	2.492	1.278
1.99	1.99	271	156	0.47	0.019881	18.46	1.497	0.529	2.026	2.497	1.277
2.02	2.02	273	156	0.47	0.020171	18.46	1.507	0.529	2.036	2.507	1,283
2.04	2.04	274	156	0.47	0.020380	18.46	1.513	0.526	2.039	2,513	1,283
2.06	2.06	276	156	0.47	0.020600	18.47	1.523	0.526	2.050	2.523	1,288
2.09	2.09	277	156	0.48	0.020890	18.47	1.528	0.523	2.052	2.528	1.288
2.11	2.11	279	156	0.48	0.021100	18.48	1 539	0.528	2.063	2 539	1 293
2.14	2.14	280	156	0.48	0.021390	18.48	1.544	0.521	2.065	2.544	1,293
2.16	2.16	282	156	0.48	0.021610	18.49	1.555	0.521	2.076	2.555	1,298
2.18	2:18	284	157	0.48	0.021820	18.49	1.566	0.518	2.083	2,566	1,901
2.21	2.20	285	157	0.48	0.022040	18.50	1.571	0.518	2.089	2.571	1,903
2.23	2.22	286	157	0.48	0.022250	18 50	1576	0.518	2 0 94	2 576	1 305
2.26	2.25	288	157	0.48	0.022539	18.51	1.586	0.515	2,102	2,586	1,908
2.28	2.28	289	157	0.48	0.022759	18.51	1.592	0.515	2.107	2,592	1.311
2.30	2.80	291	157	0.49	0.022969	18.51	1.602	0.512	2.115	2 602	1 919
2.32	2.32	292	157	0.49	0.023189	18.52	1.607	0.512	2.120	2.607	1,316
2.35	2.85	293	157	0.49	0.023469	18 52	1.612	0.512	2 1 2 5	2 612	1 318
2.38	2.38	295	157	0.49	0.023759	18.53	1.623	0.512	2.135	2.623	1.324
2.40	2.40	296	157	0.49	0.023979	18.53	1.628	0.509	2.138	2.628	1.324
2.42	2.42	297	157	0.49	0.024189	18.54	1.633	0.509	2.143	2.633	1,326
2.45	2.45	299	157	0.49	0.024479	18.54	1.644	0.509	2.153	2.644	1,331
2.47	2.47	300	157	0.49	0.024688	18.55	1.649	0.509	2.158	2.649	1,934
2,49	2.49	301	158	0.49	0.024908	18.55	1.654	0.507	2.161	2.654	1,334
2.52	2.52	302	158	0.49	0.025198	18.56	1.659	0.507	2.166	2.659	1.336
2.55	2.55	304	158	0.49	0.025478	18.56	1.670	0.507	2.176	2.670	1.941
2.57	2.57	304	158	0.49	0.025698	18.57	1.669	0.507	2.176	2,669	1.341
2.59	2.59	306	158	0.50	0.025918	18.57	1.680	0.504	2.184	2.680	1.344
2.62	2.62	307	158	0.50	0.026198	18.57	1.685	0.504	2.189	2.685	1.346
2.64	2.64	308	158	0.50	0.026418	18.58	1.690	0.504	2.194	2.690	1.349
2,67	2,67	309	158	0.50	0.026708	18.58	1,695	0.504	2,199	2,695	1,351
2,69	2.68	310	158	0.50	0.026847	18.59	1,700	0.504	2.204	2,700	1.354
2,72	2,71	311	158	0.50	0.027137	18.59	1,705	0.501	2,206	2,705	1,954
2.74	2.74	312	158	0.50	0.027417	18.60	1.710	0.501	2.211	2.710	1.356
2.77	2.76	312	158	0.50	0.027637	18.60	1.710	0.501	2.211	2.710	1.356
2,79	2,79	314	158	0.50	0.027857	18.61	1,720	0,501	2,221	2,720	1,361
2.82	2.81	315	158	0.50	0.028137	18.61	1.725	0.501	2.226	2.725	1.364
2.84	2.84	315	158	0.50	0.028357	18.62	1.725	0.501	2.226	2.725	1.364
2.87	2.86	316	159	0.50	0.028647	18.62	1.730	0,498	2.228	2.730	1.363
2.89	2.89	317	159	0.50	0.028857	18.63	1.735	0.498	2.233	2.735	1.366
2.92	2.91	318	159	0.50	0.029146	18.63	1,740	0,498	2,238	2,740	1,368
2.94	2.94	318	159	0.50	0.029356	18.64	1.739	0.498	2.238	2.739	1.368

	Deform.	Celda	Presión	Incremento		Åres	Infuerto	13	a'1	11	Esfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Dervindor	Efectivo	Efectivo	Total	Promedio
(mm)		N	(kPa)	(kg!/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(ket/cm <sup>2</sup> )
2.97	2.96	319	159	0.50	0.029646	18.64	1,744	0,498	2.243	2.744	1.371
2.99	2.99	320	159	0.50	0.029866	18.65	1,750	0.498	2.248	2.750	1.373
3.02	3.01	321	159	0.50	0.030146	18.65	1.754	0.498	2,253	2,754	1.376
3.04	3.04	322	159	0.50	0.030366	18.65	1,760	0.498	2,258	2,760	1.378
3.07	3.07	322	159	0.50	0.030656	18.66	1,759	0.498	2.257	2,759	1.378
3.09	3.09	324	159	0.50	0.030866	18.66	1.770	0.498	2.268	2.770	1.383
3.12	3.12	325	159	0.50	0.031155	18.67	1.774	0,498	2.273	2.774	1.386
3.14	3.14	325	159	0.50	0.031365	18.67	1.774	0.498	2.272	2,774	1.385
3.16	3.16	327	159	0.50	0.031585	18.68	1.785	0.498	2,283	2,785	1,391
3.19	3.19	327	159	0.50	0.031875	18.68	1,784	0.498	2.282	2,784	1,390
3.21	3.21	328	159	0.50	0.032085	18.69	1.789	0.498	2.287	2,789	1,393
3.24	3.24	329	159	0.50	0.032375	18.69	1.794	0.498	2.292	2.794	1.395
3.26	3.26	330	159	0.50	0.032595	18.70	1.799	0.498	2.297	2.799	1.398
3.28	3.28	331	159	0.50	0.032805	18.70	1.804	0.498	2.303	2.804	1.400
3.31	3.31	332	159	0.50	0.033095	18.71	1.809	0.498	2.307	2,809	1.403
3.33	3.33	333	159	0.50	0.083304	18.71	1.814	0.498	2.312	2.814	1.405
3.35	3.35	333	159	0.50	0.033524	18.72	1.814	0.498	2.312	2.814	1.405
3.38	3.38	333	159	0.50	0.033814	18.72	1.813	0.498	2.312	2.813	1.405
3.40	3.40	334	158	0.50	0.034024	18.73	1.818	0.501	2.319	2.818	1.410
3.43	3.43	335	159	0.50	0.034314	18.73	1.823	0.498	2.321	2.823	1.410
3.46	3.45	336	159	0.50	0.034534	18.74	1.828	0.498	2.326	2.828	1.412
3.48	3.48	337	158	0.50	0.034814	18.74	1.833	0.501	2.334	2.833	1.418
3.51	3.50	337	158	0.50	0.035034	18.74	1.833	0.501	2.334	2.833	1.417
3.53	3.53	338	158	0.50	0.035324	18.75	1.838	0.501	2.339	2.838	1.420
3.56	3.55	339	158	0.50	0.035533	18.75	1.843	0.501	2.344	2.843	1.422
3.58	3.58	340	158	0.50	0.035823	18.76	1.847	0.501	2.349	2.847	1.425
3.61	3.60	340	158	0.50	0.036033	18.76	1.847	0.501	2.348	2.847	1.425
3.63	3.63	340	158	0.50	0.036323	18.77	1.846	0.501	2.348	2.846	1.424
3.66	3.66	341	158	0.50	0.036613	18.78	1.851	0.501	2.352	2.851	1.427
3.68	3.68	341	158	0.50	0.036823	18.78	1.851	0.504	2.355	2.851	1.429
3.71	3.71	342	158	0.50	0.037113	18.79	1.856	0.504	2.360	2.856	1.432
3.74	3.73	343	158	0.50	0.037333	18.79	1.861	0.504	2.365	2.861	1.434
3.76	3.75	344	158	0.50	0.037542	18.79	1.866	0.504	2.370	2.866	1.437
3.79	3.78	344	158	0.50	0.037832	18.80	1.865	0.504	2.369	2.865	1.437
3.81	3.80	344	158	0.49	0.038042	18.80	1.865	0.507	2.372	2.865	1.439
3.83	3.83	345	158	0.50	0.038262	18.81	1.870	0.504	2.374	2.870	1.439
3.86	3.86	346	158	0.49	0.038552	18.81	1.875	0.507	2.381	2.875	1.444
3.88	3.88	347	158	0.49	0.038762	18.82	1.880	0.507	2.386	2.880	1.447
3.91	3.91	347	158	0.49	0.039052	18.82	1.879	0.507	2.386	2.879	1.446
3.93	3.93	348	158	0.49	0.039272	18.83	1.884	0.507	2.391	2.884	1.449
3.96	3.96	349	158	0.49	0.039552	18.83	1.889	0.507	2.396	2.889	1.451
3.98	3.98	349	157	0.49	0.039771	18.84	1.889	0.509	2.398	2.889	1.454
4.00	4.00	349	157	0.49	0.039981	18.84	1.888	0.509	2.398	2.888	1.454
4.03	4.03	350	157	0.49	0.040271	18.85	1.893	0.509	2.402	2.893	1.456
4.06	4.06	350	157	0.49	0.040561	18.85	1.892	0.509	2.402	2.892	1.456
4.08	4.08	351	157	0.49	0.040771	18.85	1.897	0.512	2.410	2.897	1.461
4.11	4.11	351	157	0.49	0.041061	18.86	1.897	0.512	2.409	2.897	1.461
4.14	4.14	351	157	0.49	0.041351	18.87	1.896	0.512	2.409	2.896	1.460
4.16	4.16	352	157	0.49	0.041561	18.87	1.901	0.512	2.414	2.901	1.463
4.19	4.19	352	157	0.49	0.041850	18.88	1.901	0.512	2.413	2.901	1.463
4.21	4.21	353	157	0.49	0.042070	18.88	1.906	0.512	2.418	2.906	1.465
4.24	4.24	354	157	0.48	0.042350	18.89	1.910	0.515	2.426	2.910	1.470

	Deform.	Celda	Presión	Incremento		Åres	Eriseno	13	- 61	:1	Estuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Derviedor	Electivo	Efectivo	Total	Promedio
(mm)	56	N	(kPa)	(kgl/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kg(/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )
4.26	4.26	355	157	0.48	0.042570	18.89	1.915	0.515	2,431	2.915	1.473
4.29	4.29	355	157	0.48	0.042860	18.90	1.915	0.515	2,430	2.915	1.472
4.31	4.31	356	157	0.48	0.043070	18.90	1.920	0.515	2.435	2.920	1.475
4.34	4.34	356	157	0.48	0.043360	18.91	1.919	0.518	2.437	2.919	1.477
4.36	4.36	357	157	0.48	0.043580	18.91	1 924	0518	2.442	2 924	1.480
4 38	4 38	35.8	157	0.48	0.043790	18.92	1 9 2 9	0518	2 447	2 929	1.482
4.41	4.41	358	157	0.48	0.044079	18.92	1.929	0.518	2,446	2.929	1.482
4.43	4.43	359	156	0.48	0.044289	18.93	1934	0.521	2.454	2 984	1.487
4.46	4.46	359	156	0.48	0.044579	18.93	1.933	0.521	2.454	2.933	1.487
4.48	4.48	360	156	0.48	0.044799	18.94	1938	0.521	2.459	2 938	1.490
4.50	4.50	361	156	0.48	0.045009	18.94	1.943	0.521	2.463	2.943	1.492
4.53	4.53	362	156	0.48	0.045299	18.95	1.948	0.521	2.468	2.948	1,494
4.55	4.55	863	156	0.48	0.045509	18.95	1953	0.521	2.473	2 953	1.497
4.58	4.58	863	156	0.48	0.045799	18.96	1952	0.523	2.475	2 952	1.499
4.60	4.60	364	156	0.48	0.046019	18.96	1.957	0.523	2.480	2 957	1 502
4.63	4.63	265	156	0.48	0.046308	18.97	1963	0.523	2.485	2 962	1 504
4.65	4.65	366	156	0.47	0.046518	18.97	1967	0.526	2.403	2 967	1 510
4.68	4.68	367	156	0.47	0.046808	18.98	1.971	0.526	2.498	2 971	1 512
4.70	4.70	367	156	0.47	0.042018	18.98	1.971	0.526	2.497	2 971	1 512
4.73	4.73	368	156	0.47	0.047308	18.99	1.976	0.526	2 502	2 976	1 514
4.76	4.70	0.00	100	0.07	0.047639	10.00	1.001	0.000	3 607	3.001	1 617
4.78	4.73	263	156	0.47	0.047738	18.99	1.901	0.526	2.507	2.961	1.516
4.70	4.90	270	155	0.47	0.049039	10.00	1.005	0.526	2.500	2.005	1 610
4.01	4.00	370	100	0.47	0.046020	10.00	1.965	0.520	2.511	2.365	1.634
4.85	4.85	370	156	0.47	0.048527	19.01	1.989	0.529	2.515	2.964	1.521
4.00	4,00	374	400	0.47	0.040017	10.01	1.000	0.020	2.320	2.000	1 6 3 6
4.00	4.00	371	135	0.47	0.048007	19.02	1.000	0.532	2.520	2.303	1 633
4.71	4,000	371	1.30	0.47	0.040027	10.02	1.200	0.525	2.517	2.300	1.020
4.73	9.33	372	100	0.47	0.049517	19.00	1.993	0.532	2.323	2,393	1.520
4.30	4.33	372	135	0.47	0.0499337	19.05	1.993	0.532	2.329	2,393	1.520
9.30	4,30	272	130	0.47	0.040017	10.04	1.992	0.535	2.327	2.392	1.551
5.01	5.01	372	100	0.47	0.050107	10.09	1.991	0.535	2.320	2.391	1.550
5.04	5.05	373	135	0.47	0.050527	13.05	1.996	0.535	2.331	2.396	1.533
5,00	5.05	3/3	133	0.47	0.050936	13.05	1.000	0.000	2.330	2,390	1.532
5.09	5.00	373	135	0.47	0.051046	10.06	1.995	0.535	2.530	2,395	1 696
5.11	5.10	274	400	0.47	0.001000	10.00	2.000	0.000	2.333	3.000	1.000
5.14	5.13	374	133	0.40	0.001320	10.07	1,000	0.537	2.337	3,000	1.007
5.10	5.15	274	130	0.40	0.001040	13.07	1.999	0.537	2.339	2.393	1.337
5.19	5.18	374	155	0.46	0.051836	19.08	1.998	0.537	2.536	2.998	1.537
5.21	5.21	3/3	100	0.40	0.052406	10.00	2.003	0.537	2.341	3.003	1.539
3.24	5.24	3/3	139	0.40	0.052406	10.00	2.003	0.540	2.343	3.003	1.341
5.27	5.20	3/3	154	0.46	0.052625	19.09	2.002	0.540	2.542	3.002	1.541
5.29	5.29	3/5	154	0.46	0.052905	19.10	2.002	0.540	2.542	3.002	1.541
5.32	5.31	375	154	0.46	0.053125	19.10	2.001	0.540	2.541	3.001	1.541
5.34	5.34	575	154	0.46	0.053415	19.11	2.000	0.543	2.343	3.000	1.543
5.37	5.35	376	134	0.46	0.053675	19.11	2.005	0.540	2.343	3.005	1.543
5.39	5.39	376	154	0.46	0.053915	19.12	2.005	0.543	2.548	3.005	1.545
5.42	5.42	376	154	0.46	0.054205	19.12	2.004	0.543	2.547	3.004	1.545
5.44	5.43	376	134	0.45	0.054345	19.13	2.004	0.546	2.550	3.004	1.548
5.47	5.46	377	154	0.45	0.054635	19.13	2.009	0.546	2.554	3.009	1.550
5.49	5.49	377	154	0.45	0.054914	19.14	2.008	0.546	2.554	3.008	1.550
5.52	5.52	377	154	0.45	0.055204	19.15	2.007	0.546	2.553	3.007	1.549
5.55	5.55	378	154	0.45	0.055494	19.15	2.012	0.549	2.561	3.012	1.555

	Deform.	Celda	Presión	Incremento		Åres	Estuenzo	13	- 11	=1	Esfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Dervision	Efectivo	Efectivo	Total	Promedio
(mm)	56	N	(kPa)	(kg!/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
6.90	6.89	398	150	0.42	0.068918	19.43	2.088	0.585	2.673	3.088	1.629
6.92	6.91	399	150	0.41	0.069138	19.43	2.093	0.588	2.681	3.093	1.634
6.95	6.94	399	150	0.42	0.069418	19.44	2.092	0.585	2.677	3.092	1.631
6.97	6.96	400	150	0.41	0.069638	19.44	2.097	0.588	2.685	3.097	1.636
7.00	6.99	400	150	0.41	0.069927	19.45	2.097	0.588	2.684	3.097	1.636
7.02	7.02	400	150	0.41	0.070207	19.45	2.096	0.588	2.683	3.096	1.635
7.05	7.04	400	150	0.41	0.070427	19.46	2.095	0.588	2.683	3.095	1.635
7.08	7.07	400	149	0.41	0.070717	19.46	2.095	0.590	2.685	3.095	1.638
7.10	7.09	401	149	0.41	0.070927	19.47	2.100	0.590	2.690	3.100	1.640
7.12	7.11	401	149	0.41	0.071147	19.47	2.099	0.590	2.689	3.099	1.640
7.15	7.14	402	149	0.41	0.071437	19.48	2.104	0.593	2.697	3.104	1.645
7.18	7.17	402	149	0.41	0.071717	19.49	2.103	0.593	2.696	3.103	1.645
7.19	7.19	403	149	0.41	0.071866	19.49	2.108	0.593	2,701	3,108	1.647
7.22	7.21	404	149	0.41	0.072146	19.49	2.113	0.593	2,706	3.113	1.649
7.24	7.24	404	149	0.40	0.072366	19.50	2.112	0.596	2,708	3.112	1.652
7.26	7.26	406	149	0.40	0.072576	19.50	2.122	0.596	2.718	3.122	1.657
7.29	7.29	406	149	0.40	0.072866	19.51	2.121	0.596	2.717	3.121	1.657
7.31	7.31	406	149	0.40	0.073086	19.51	2.121	0.596	2,717	3,121	1.656
7.33	7.33	407	149	0.40	0.073296	19.52	2.126	0.599	2.724	3.126	1.661
7.36	7.36	407	149	0.40	0.073586	19.52	2.125	0.599	2.724	3.125	1.661
7.38	7.38	408	149	0.40	0.073806	19.53	2.130	0.599	2.728	3.130	1.663
7.41	7.41	408	148	0.40	0.074085	19.54	2.129	0.601	2.730	3.129	1.666
7.43	7.43	408	148	0.40	0.074305	19.54	2.128	0.601	2,730	3 128	1,666
7.46	7.45	409	148	0.40	0.074515	19.54	2.133	0.601	2,735	3.133	1.668
7.48	7.48	408	148	0.40	0.074805	19.55	2.127	0.601	2,729	3.127	1.665
7.51	7.51	408	148	0.40	0.075095	19.56	2.127	0.601	2,728	3.127	1.665
7.53	7.53	404	148	0.40	0.075305	19.56	2.105	0.604	2.710	3.105	1.657
7.56	7.56	403	148	0.40	0.075595	19.57	2.099	0.604	2,704	3.099	1.654
7.59	7.58	402	148	0.40	0.075815	19.57	2.094	0.604	2.698	3.094	1.651
7.61	7.61	401	148	0.40	0.076094	19.58	2.088	0.604	2.692	3.088	1.648
7.63	7.62	401	148	0.39	0.076244	19.58	2.088	0.607	2.695	3.088	1.651
7.66	7.65	401	148	0.39	0.076524	19.59	2.087	0.607	2.694	3.087	1.650
7.68	7.67	401	148	0.39	0.076744	19.59	2.086	0.607	2.693	3.086	1.650
7.71	7.70	401	147	0.39	0.077034	19.60	2.086	0.610	2.696	3.086	1.653
7.73	7.72	400	147	0.39	0.077244	19.60	2.080	0.610	2.690	3.080	1.650
7.76	7.75	400	147	0.39	0.077534	19.61	2.079	0.610	2.689	3.079	1.650
7.78	7.78	399	147	0.39	0.077754	19.61	2.074	0.610	2.684	3.074	1.647
7.81	7.80	399	147	0.39	0.078034	19.62	2.073	0.610	2.683	3.073	1.646
7.83	7.83	399	147	0.39	0.078253	19.62	2.073	0.610	2.682	3.073	1.646
7.86	7.85	399	147	0.39	0.078543	19.63	2.072	0.610	2.682	3.072	1.646
7.88	7.88	399	147	0.39	0.078753	19.63	2.072	0.610	2.681	3.072	1.646
7.91	7.90	399	147	0.39	0.079043	19.64	2.071	0.613	2.683	3.071	1.648
7.93	7.93	399	147	0.39	0.079253	19.65	2.070	0.613	2.683	3.070	1.648
7.96	7.95	399	147	0.39	0.079543	19.65	2.070	0.613	2.682	3.070	1.647
7.98	7.98	398	147	0.39	0.079763	19.66	2.064	0.613	2.677	3.064	1.645
8.01	8.00	399	147	0.38	0.080043	19.66	2.069	0.615	2.684	3.069	1.650
8.03	8.03	399	147	0.38	0.080263	19.67	2.068	0.615	2.683	3.068	1.649
8.06	8.06	399	147	0.38	0.080552	19.67	2.067	0.615	2.683	3.067	1.649
8.08	8.08	399	147	0.38	0.080762	19.68	2.067	0.615	2.682	3.067	1.649
8.11	8.11	399	147	0.38	0.081052	19.68	2.066	0.618	2.685	3.066	1.651
8.13	8.13	400	147	0.38	0.081272	19.69	2.071	0.618	2.689	3.071	1.654
8.16	8.16	399	147	0.38	0.081552	19.69	2.065	0.618	2.683	3.065	1.651

	Deform.	Celda	Presión	Incremento		Åres	Estuerro	13	s'1	=1	Esfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Derviedor	Efectivo	Efectivo	Total	Promedio
(mm)		N	(kPa)	(kg!/cm*)	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kg(/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
8.18	8.18	399	146	0.38	0.081772	19.70	2.065	0.621	2.686	3.065	1.653
8.21	8.21	400	146	0.38	0.082062	19.71	2.069	0.621	2.690	3.069	1.656
8.23	8,23	400	146	0.38	0.082272	19.71	2.069	0.621	2.690	3,069	1.655
8.25	8.25	400	146	0.38	0.082492	19.71	2.068	0.621	2.689	3.068	1.655
8.78	8.78	400	146	0.38	0.082771	19.72	2.058	0.621	2.689	3.068	1.655
8 31	8.31	400	146	0.38	0.083061	19.73	2.067	0.624	2.691	3.067	1.657
8.33	8.33	400	146	0.38	0.083281	19.73	2.066	0.624	2.690	3.056	1.657
8.95	8.35	400	146	0.38	0.083491	19.74	2.066	0.624	2,690	3.055	1.657
8 38	8.38	401	145	0.38	0.083781	19.74	2 071	0.624	2 694	3.071	1.659
9.40	0.00	401	1.44	0.97	0.002031	10.75	3.070	0.627	2 607	2 070	1 663
9.49	9.40	403	140	0.37	0.084011	10.75	2.070	0.627	2.007	3.070	1.002
8.45	8.44	402	146	0.37	0.084431	19.76	2.074	0.627	2 201	3.074	1.664
0.40	0.47	400	4.46	0.07	0.004710	10.76	3,074	0.637	3 300	2,074	4,000
9.40	9.47	402	140	0.37	0.084930	10.70	2.079	0.620	2,700	3.074	1.003
0.50	0.40		140	0.07	0.004030	10.77	2.073	0.020	2.702	3.073	1.000
8.53	8.52	402	145	0.37	0.085220	19.77	2.072	0.629	2.702	3.072	1.666
8.55	8.54	402	145	0.37	0.085430	19.76	2.072	0.629	2.701	3.072	1.665
8.58	8.57	402	145	0.37	0.085/20	19.78	2.071	0.632	2.703	3.0/1	1.668
8.60	8.59	402	145	0.37	0.085930	19.79	2.071	0.632	2.703	3.071	1.668
8.63	8.62	402	145	0.37	0.086220	19.79	2.070	0.632	2.702	3.070	1.667
8.65	8.64	401	145	0.37	0.085440	19.80	2.065	0.632	2.697	3.055	1.664
8.68	8.67	402	145	0.37	0.086720	19.81	2.069	0.635	2.704	3.069	1.669
8.70	8.69	402	145	0.37	0.086939	19.81	2.069	0.635	2.703	3.069	1.669
8.73	8.72	402	145	0.37	0.087229	19.82	2.068	0.635	2.703	3.068	1.669
8.75	8.74	402	145	0.36	0.087439	19.82	2.067	0.638	2.705	3.067	1.671
8.78	8.77	402	145	0.36	0.087729	19.83	2.067	0.638	2.704	3.067	1.671
8.80	8.79	402	145	0.36	0.087949	19.83	2.066	0.638	2.704	3.066	1.671
8.83	8.82	402	145	0.36	0.088229	19.84	2.066	0.638	2.703	3.056	1.670
8.85	8.84	402	144	0.36	0.088449	19.84	2.065	0.640	2.706	3.065	1.673
8.87	8.87	402	144	0.36	0.088659	19.85	2.065	0.640	2.705	3.065	1.673
8.90	8.89	403	144	0.36	0.088948	19.85	2.069	0.643	2.712	3.069	1.678
8.93	8.92	403	144	0.36	0.089238	19.86	2.068	0.640	2.709	3.068	1.675
8.95	8.94	403	144	0.36	0.089448	19.87	2.068	0.643	2.711	3.068	1.677
8.98	8.97	404	144	0.36	0.089738	19.87	2.072	0.643	2.716	3.072	1.679
9.00	9.00	403	144	0.36	0.089958	19.88	2.067	0.643	2.710	3.067	1.677
9.03	9.02	403	144	0.35	0.090238	19.88	2.066	0.646	2.712	3.066	1.679
9.06	9.05	403	144	0.35	0.090528	19.89	2.066	0.646	2.712	3.066	1.679
9.09	9.08	403	144	0.35	0.090818	19.89	2.065	0.646	2.711	3.065	1.678
9.11	9.10	404	144	0.35	0.091028	19.90	2.070	0.649	2.718	3.070	1.684
9.13	9.12	404	144	0.35	0.091247	19.90	2.069	0.649	2.718	3.069	1.683
9.16	9.15	404	144	0.35	0.091537	19.91	2.068	0.649	2.717	3.068	1.683
9.19	9.18	404	144	0.35	0.091817	19.92	2.068	0.649	2,717	3.068	1.683
9.21	9,20	405	143	0.35	0.092037	19.92	2.072	0.652	2,724	3.072	1.688
9.74	9,23	405	143	0.35	0.092327	19.93	2,072	0.652	2,728	3,072	1,687
9.26	9.35	405	143	0.35	0.092537	19.93	2 071	0.652	2 7 2 8	3 071	1.687
9.79	9,28	406	143	0.35	0.092827	19.94	2.076	0.654	2,730	3,076	1,692
9.81	9.30	406	143	0.85	0.093047	19.94	2.075	0.652	2 7 2 7	3.075	1.689
9.99	9.88	406	143	0.85	0.093256	19.95	2 075	0.654	2 7 2 9	3,075	1,692
9.86	9.95	407	143	0.85	0.093546	19.95	2 079	0.654	2 784	3,079	1,694
0.00	0.00	407	1,40	0.00	0.002020	10.00	3,079	0.654	3 7 9 9	2,079	1,604
9.39	9.30	407	140	0.35	0.004116	10.00	2.070	0.657	2.733	2,076	1,694
3,42	0.41		140	0.34	0.004110	10.07	2.070	0.007	6.733	3.076	1.090
3,44	9,43	408	143	0.34	0.094336	19.97	2.082	0.657	2.740	3.062	1,000
3,49	3,43		143	0.34	0.034346	13.35	6.002	1.007	6.1.53	3.062	1.030

	Deform.	Celda	Presión	Incremento		Åres	Infecto	13	s'1	11	Estuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregide	Dervindor	Efectivo	Efectivo	Total	Promedio
(mm)	8	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kg(/cm²)	(lat/cm <sup>*</sup> )	(ket/cm <sup>2</sup> )
9.49	9.48	409	143	0.34	0.094836	19.98	2.086	0.657	2.744	3.086	1,700
9.51	9.51	409	142	0.34	0.095056	19.99	2.086	0.660	2.746	3.086	1,703
9.53	9,53	410	142	0.34	0.095266	19.99	2.090	0.660	2,750	3.090	1,705
9.56	9.56	410	142	0.34	0.095555	20.00	2.090	0.660	2.750	3.090	1,705
9.58	9,58	410	142	0.34	0.095775	20.00	2.089	0.663	2,752	3.089	1,707
9.61	9.61	411	142	0.34	0.096055	20.01	2.094	0.663	2.756	3.094	1.710
9.63	9.63	411	142	0.34	0.096275	20.02	2.093	0.663	2.756	3.093	1,709
9.65	9.65	412	142	0.33	0.095485	20.02	2.098	0.666	2,763	3.098	1,714
9.68	9.68	412	142	0.33	0.096775	20.03	2.097	0.666	2.763	3.097	1.714
9.70	9.70	412	142	0.33	0.096995	20.03	2.097	0.666	2.762	3.097	1.714
9.73	9.73	413	142	0.33	0.097275	20.04	2.101	0.666	2.767	3.101	1.716
9.75	9.75	413	142	0.33	0.097495	20.04	2.101	0.666	2.766	3.101	1.716
9.78	9.78	414	142	0.33	0.097784	20.05	2.105	0.668	2.773	3.105	1.721
9.80	9.80	414	142	0.33	0.097994	20.05	2.104	0.668	2.773	3.104	1.721
9.83	9.83	414	142	0.33	0.098284	20.06	2.104	0.668	2.772	3.104	1.720
9.85	9.85	415	142	0.33	0.098494	20.06	2.108	0.668	2.777	3.108	1.723
9.88	9.88	415	142	0.33	0.098784	20.07	2.108	0.668	2.776	3.108	1.722
9.91	9.90	415	141	0.33	0.099004	20.08	2.107	0.671	2.778	3.107	1.725
9.93	9.93	415	141	0.33	0.099284	20.08	2.107	0.671	2.778	3.107	1.724
9.96	9.96	415	141	0.33	0.099574	20.09	2.106	0.671	2.777	3.105	1.724
9.98	9,98	414	141	0.33	0.099793	20.09	2.100	0.674	2.774	3,100	1,724
10.01	10.01	414	141	0.33	0.100073	20.10	2.100	0.674	2.774	3.100	1.724
10.03	10.03	414	141	0.33	0.100293	20.10	2.099	0.674	2.773	3.099	1.723
10.06	10.05	413	141	0.33	0.100513	20.11	2.094	0.674	2.767	3.094	1.721
10.08	10.08	413	141	0.33	0.100793	20.12	2.093	0.674	2.767	3.093	1.720
10.11	10.11	413	141	0.32	0.101083	20.12	2.092	0.677	2.769	3.092	1.723
10.14	10.14	412	141	0.32	0.101373	20.13	2.086	0.677	2.763	3.086	1.720
10.17	10.17	411	141	0.32	0.101663	20.14	2.081	0.677	2.757	3.081	1.717
10.19	10.19	410	140	0.32	0.101872	20.14	2.075	0.679	2.755	3.075	1.717
10.21	10.21	410	140	0.32	0.102092	20.14	2.075	0.679	2.754	3.075	1.717
10.24	10.24	409	140	0.32	0.102372	20.15	2.069	0.679	2.748	3.069	1.714
10.26	10.26	409	140	0.32	0.102592	20.16	2.068	0.682	2.751	3.068	1.717
10.29	10.29	409	140	0.32	0.102882	20.16	2.068	0.679	2.747	3.068	1.713
10.32	10.32	408	140	0.32	0.103162	20.17	2.062	0.679	2.742	3.062	1.711
10.34	10.34	408	140	0.32	0.103382	20.17	2.062	0.682	2.744	3.052	1.713
10.37	10.37	408	140	0.32	0.103672	20.18	2.061	0.682	2.743	3.061	1.713
10.39	10.39	407	140	0.31	0.103882	20.19	2.055	0.685	2.740	3.055	1.713
10.42	10.42	408	140	0.31	0.104171	20.19	2.060	0.685	2.745	3.060	1.715
10.44	10.44	407	140	0.31	0.104381	20.20	2.054	0.685	2.739	3.054	1.712
10.47	10.47	406	140	0.31	0.104671	20.20	2.049	0.685	2.734	3.049	1,709
10.49	10.49	406	140	0.31	0.104891	20.21	2.048	0.685	2.733	3.048	1.709
10.52	10.52	49	140	0.31	0.105171	20.21	2.047	0.688	2.735	3.047	1.712
10.55	10.55	405	140	0.31	0.105461	20.22	2.042	0.688	2.730	3.042	1.709
10.57	10.57	405	140	0.31	0.105681	20.23	2.041	0.688	2.729	3.041	1.708
10.60	10.60	404	140	0.31	0.105961	20.23	2.036	0.688	2.723	3.036	1,706
10.63	10.63	404	139	0.31	0.106250	20.24	2.035	0.691	2.725	3.035	1,708
10.65	10.65	404	139	0.31	0.106470	20.24	2.034	0.691	2.725	3.034	1,708
10.68	10.68	403	139	0.31	0.106750	20.25	2.029	0.691	2.719	3.029	1.705
10.71	10.70	403	139	0.31	0.107040	20.26	2.028	0.691	2.719	3.028	1,705
10.73	10.73	403	139	0.31	0.107260	20.26	2.028	0.691	2.718	3.028	1,704
10.76	10.75	403	139	0.31	0.107540	20.27	2.027	0.693	2.720	3.027	1,707
10.79	10.78	403	139	0.31	0.107830	20.27	2.026	0.693	2.720	3.026	1.707

	Deform.	Celda	Presión	Incremento		Åres	Estuano	a'3	a'1	11	Estuerzo
Deformación	Unitaria	Canan	de poros	deportos	Deform.	Correction	Dervindor	lfectivo	Electivo	Total	Promedio
(mm)	8	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	Bertlem
10.81	10.80	403	199	0.81	0.108050	20.28	2.026	0.693	2 719	3.026	1 205
10.84	10.83	402	199	0.31	0.108339	20.29	2.020	0.693	2 713	3.020	1 203
10.86	10.85	460	199	0.30	0.108549	20.29	2 020	0.696	2 716	3.020	1 206
10.89	10.88	402	199	0.30	0.108839	20.30	2.019	0.693	2 712	3.019	1 203
10.00	10.01	400	100	0.20	0.100130	20.20	2,022	0.000	3 710	2,012	1 300
10.92	10.91	403	139	0.30	0.109129	20.30	2.023	0.090	2.715	2.023	1 205
10.97	10.95	403	199	0.30	0.109539	20.31	2.022	0.000	2 718	3,022	1 202
10.97	10.00	400	100	0.30	0.100023	20.22	2,022	0.000	3 719	2.022	1.202
11.00	11.01	403	139	0.30	0.110139	20.32	2.022	0.699	2.710	2.022	1.710
11.02	11.01	403	1.39	0.30	0.110125	20.33	2.021	0.000	2.720	3.021	1.710
11.05	11.09	403	1.39	0.30	0.110918	20.33	2.020	0.000	2.717	3.020	1,700
11.07	11.00	402	1.39	0.30	0.110020	20.39	2.015	0.000	2.719	2,015	1 300
11.05	11.00	400	1.30	0.30	0.110040	20.39	2.013	0.000	2.710	3.019	1.700
11.14	44.43	403	139	0.30	0.111056	20.35	2.019	0.000	2.710	3.019	1.700
11.14	11.13	403	130	0.30	0.111346	20.35	2.018	0.702	2.720	3.010	1.711
11.17	11.16	403	138	0.30	0.111638	20.35	2.018	0.702	2.719	3.018	1.711
11.19	11.18	403	138	0.30	0.111848	20.37	2.017	0.702	2.719	3.017	1.710
11.22	11.21	403	138	0.30	0.112138	20.37	2.016	0.702	2.718	3.016	1.710
11.25	11.24	403	138	0.30	0.112428	20.38	2.015	0.702	2.718	3.016	1.710
12.84	12.83	410	135	0.27	0.128290	20.75	2.014	0.730	2.744	3.014	1.757
12.85	12.85	410	135	0.27	0.128510	20.76	2.014	0.730	2.743	3.014	1.736
12.89	12.88	410	135	0.27	0.128800	20.76	2.013	0.730	2.743	3.013	1.736
12.91	12.91	410	135	0.27	0.129080	20.77	2.012	0.727	2.739	3.012	1.733
12.95	12.94	409	135	0.27	0.129440	20.78	2.007	0.730	2.736	3.007	1.733
12.97	12.97	410	135	0.27	0.129659	20.78	2.011	0.730	2.741	3.011	1.735
12.99	12.99	409	135	0.27	0.129869	20.79	2.005	0.730	2.735	3.005	1.732
13.02	13.02	409	135	0.27	0.130159	20.79	2.005	0.730	2.735	3.005	1.732
13.05	13.04	409	135	0.27	0.130449	20.80	2.004	0.732	2.737	3.004	1.735
13.07	13.07	409	135	0.27	0.130659	20.81	2.004	0.730	2.733	3.004	1.732
13.10	13.09	409	135	0.27	0.130949	20.81	2.003	0.730	2.733	3.003	1.731
13.12	13.12	409	135	0.27	0.131169	20.82	2.003	0.732	2.735	3.003	1.734
13.15	13.14	410	135	0.27	0.131449	20.83	2.007	0.730	2.737	3.007	1.733
13.17	13.17	410	135	0.27	0.131669	20.83	2.006	0.732	2.739	3.006	1.736
13.20	13.20	410	135	0.27	0.131958	20.84	2.005	0.732	2.738	3.006	1.735
13.22	13.22	410	135	0.27	0.132168	20.84	2.005	0.732	2.738	3.005	1.735
13.25	13.25	410	135	0.27	0.132458	20.85	2.005	0.732	2.737	3.005	1.735
13.27	13.27	410	135	0.27	0.132678	20.86	2.004	0.732	2.736	3.004	1.734
13.30	13.30	411	135	0.27	0.132958	20.86	2.008	0.732	2.741	3.008	1.737
13.32	13.32	410	135	0.27	0.133178	20.87	2.003	0.732	2.735	3.003	1.734
13.35	13.35	410	135	0.26	0.133468	20.87	2.002	0.735	2.737	3.002	1.736
13.37	13.37	410	135	0.26	0.133678	20.88	2.002	0.735	2.737	3.002	1.736
13.40	13.40	410	135	0.26	0.133967	20.89	2.001	0.735	2.736	3.001	1.736
13.42	13.42	410	135	0.26	0.134177	20.89	2.001	0.735	2.736	3.001	1.736
13.45	13.44	410	135	0.26	0.134397	20.90	2.000	0.735	2.735	3.000	1.735
13.48	13.47	410	135	0.26	0.134687	20.90	1.999	0.735	2.735	2.999	1.735
13.50	13.49	410	135	0.26	0.134897	20.91	1.999	0.735	2.734	2.999	1.735
13.53	13.52	410	135	0.26	0.135187	20.92	1.998	0.735	2.733	2.998	1.734
13.55	13.54	410	135	0.26	0.135397	20.92	1.998	0.738	2.736	2.998	1.737
13.57	13.56	410	135	0.26	0.135617	20.93	1.997	0.738	2.735	2.997	1.737
13.60	13.59	410	135	0.26	0.135907	20.93	1.997	0.738	2.735	2.997	1.736
13.63	13.62	409	135	0.26	0.136186	20.94	1.991	0.738	2.729	2.991	1.734
13.65	13.64	409	135	0.26	0.136406	20.95	1.991	0.738	2.729	2.991	1.733
13.68	13.67	408	135	0.26	0.136696	20.95	1.985	0.738	2.723	2.985	1.731

	Deform.	Celda	Presión	Incremento		Åren	Estuerzo	13	- 11	:1	Estuerzo
Deformación	Unitaria	Corgo	de poros	deporos	Deform.	Corregide	Dervindor	Efectivo	Efectivo	Total	Promedio
(mm)	<b>%</b>	N	(kPa)	(kgl/cm <sup>2</sup> )	Verterie	(cm <sup>2</sup> )	(kg(/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kg(/cm <sup>2</sup> )	(kg//cm²)	(ket/cm <sup>2</sup> )
13.70	13.69	408	135	0.26	0.136906	20.96	1.985	0.738	2.723	2.985	1.730
13.73	13.72	408	134	0.26	0.137196	20.96	1.984	0.741	2.725	2.984	1.733
13.75	13.74	408	134	0.26	0.137416	20.97	1.983	0.741	2.724	2.983	1.732
13.78	13.77	408	134	0.26	0.137696	20.98	1.983	0.741	2.724	2.983	1.732
13.80	13.79	407	134	0.26	0.137916	20.98	1.977	0.741	2,718	2.977	1,729
13.83	13.82	407	134	0.26	0.138206	20.99	1.977	0.741	2.717	2.977	1.729
13.85	13.84	407	134	0.26	0.138415	20.99	1.976	0.741	2.717	2.976	1.729
13.88	13.87	407	134	0.26	0.138705	21.00	1.976	0.744	2.719	2.976	1.731
13.90	13.89	408	134	0.26	0.138915	21.01	1.980	0.744	2.723	2.980	1.734
13.93	13.92	407	134	0.26	0.139205	21.01	1.974	0.744	2.718	2.974	1.731
13.95	13.94	408	134	0.26	0.139425	21.02	1.979	0.744	2.722	2.979	1.733
13.98	13.97	408	134	0.26	0.139705	21.08	1.978	0.744	2.722	2.978	1.733
14.00	13.99	408	134	0.26	0.139925	21.03	1.978	0.744	2.721	2.978	1.732
14.03	14.02	408	134	0.26	0.140215	21.04	1.977	0.744	2.720	2.977	1.732
14.05	14.04	408	134	0.26	0.140424	21.04	1.976	0.744	2,720	2.976	1,732
14.07	14.06	408	134	0.26	0.140644	21.05	1.976	0.744	2.720	2.976	1.732
14.10	14.09	409	134	0.26	0.140934	21.06	1.980	0.744	2.724	2.980	1.734
14.13	14.12	409	134	0.26	0.141214	21.06	1.979	0.744	2,723	2 979	1,733
14.15	14.14	409	134	0.26	0.141434	21.07	1.979	0.744	2,723	2,979	1,733
14.18	14.17	409	134	0.25	0.141724	21.07	1.978	0.746	2.725	2.978	1.736
14.21	14.20	409	134	0.25	0.142004	21.08	1.978	0.746	2,724	2.978	1,735
14.23	14.22	409	134	0.25	0.142224	21.09	1.977	0.746	2,724	2.977	1,735
14.26	14.25	409	134	0.25	0.142513	21.09	1.976	0.746	2,723	2.976	1,735
14.28	14.27	409	134	0.25	0.142723	21.10	1.976	0.746	2,722	2.976	1,734
14.30	14.29	409	134	0.25	0.142943	21.10	1.975	0.749	2,725	2.975	1.737
14.33	14.32	410	134	0.25	0.143223	21.11	1.980	0.746	2,726	2 980	1,736
14.36	14.35	410	134	0.25	0.143513	21.12	1.979	0.746	2,725	2.979	1,736
14.39	14.38	410	134	0.25	0.143803	21.13	1.978	0.746	2,725	2.978	1,736
14.41	14.40	411	134	0.25	0.144013	21.13	1.983	0.746	2,729	2,983	1,738
14.44	14.43	411	134	0.25	0.144303	21.14	1.982	0.746	2,728	2.982	1.737
14.46	14.45	412	134	0.25	0.144523	21.14	1.985	0.746	2,733	2 986	1,740
14.48	14.47	412	134	0.25	0.144732	21.15	1.986	0.749	2,735	2,986	1.742
14.51	14.50	413	134	0.25	0.145022	21.16	1.990	0.749	2,739	2.990	1.744
14.54	14.53	413	134	0.25	0.145312	21.16	1.989	0.746	2,736	2.989	1.741
14.56	14.55	414	134	0.25	0.145522	21.17	1.994	0.749	2,743	2,994	1,746
14.59	14.58	414	134	0.25	0.145812	21.18	1.993	0.749	2,742	2,993	1,746
14.61	14.60	414	134	0.25	0.146032	21.18	1.992	0.749	2,742	2,992	1.745
14.63	14,62	415	134	0.25	0.146242	21.19	1.997	0.749	2,746	2.997	1,748
14.67	14,66	415	134	0.25	0.146602	21.20	1,996	0.749	2,745	2,996	1,747
14.69	14.68	415	134	0.25	0.146821	21.20	1.995	0.749	2,745	2,995	1.747
14.71	14.70	416	134	0.25	0.147031	21.21	2,000	0.749	2,749	3,000	1,749
14.74	14.73	415	134	0.25	0.147321	21.21	1.994	0.749	2,743	2.994	1,746
14.76	14.75	416	194	0.25	0.147531	21.22	1 999	0.749	2.748	2 999	1 748
14.78	14.78	417	194	0.25	0.147751	21.22	2.003	0.749	2 752	3,003	1.751
14.81	14.80	417	134	0.25	0.148041	21.23	2,002	0.749	2,751	3,002	1,750
14.83	14.83	418	134	0.25	0.148251	21.24	2,006	0.749	2,756	3,006	1,752
14.86	14.85	418	134	0.25	0.148541	21.24	2,006	0,749	2,755	3,006	1,752
14.89	14.88	419	134	0.25	0.148831	21.25	2.010	0.749	2.759	3.010	1.754
14.91	14.90	419	133	0.25	0.149040	21.26	2,009	0.752	2,761	3,009	1,757
14.94	14.93	419	134	0.25	0.149330	21.26	2,009	0,749	2,758	3,009	1,754
14.96	14.95	420	198	0.25	0.149540	21.27	2.013	0.752	2.765	3.013	1758
14.99	14.98	420	133	0.25	0.149830	21.28	2.012	0.752	2.764	3.012	1.758

	Deform.	Celda	Presión	Incremento		Åres	Estuenco	a'3	a'1	=1	Esfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Desviedor	Electivo	Bectivo	Total	Promedio
(mm)	<b>%</b>	N	(kPa)	(kgl/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(lagt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
15.02	15.01	421	134	0.25	0.150120	21.28	2.016	0.749	2.766	3.016	1,757
15.04	15.03	420	133	0.25	0.150830	21.29	2.011	0.752	2.763	3.011	1.758
15.07	15.06	420	134	0.25	0.150620	21.30	2.010	0.749	2,760	3,010	1,754
15.09	15.08	420	133	0.25	0.150840	21.30	2.010	0.752	2,762	3.010	1,757
15.12	15.11	419	198	0.25	0.151129	21.31	2.004	0.752	2.756	3.004	1754
15.14	15.13	419	198	0.25	0.151339	21.31	2 004	0.752	2 756	3,004	1754
15.17	15.16	418	133	0.25	0.151629	21.32	1,998	0.752	2,750	2.998	1.751
15.19	15.18	418	198	0.25	0.151839	21.93	1 998	0.752	2 750	2 998	1 751
15.22	15.21	418	198	0.25	0.152129	21.33	1 997	0.752	2 749	2 997	1751
10.00	15.34	417	100	0.35	0.153410	24.04	1.000	0.753	3 744	3.063	1 740
15.25	15.29	417	133	0.25	0.152415	21.39	1.992	0.752	2.749	2.392	1.750
15.30	15.20	416	100	0.25	0.152010	24.05	1.095	0.755	2.741	3.086	1 749
15.30	46.04	410	4.00	0.25	0.152515	21.30	1.001	0.755	0.791	2.300	1.740
15.32	15.31	913	133	0.25	0.153139	21.30	1.201	0.755	2.735	2.301	4.745
15.34	15.33	413	133	0.25	0.153346	21.30	1.960	0.755	2.733	2.360	1.745
15.37	15.36	414	133	0.25	0.153638	21.37	1.975	0.755	2.729	2.975	1.742
15.40	15.39	414	135	0.25	0.153928	21.38	1.974	0.755	2.729	2.9/4	1.742
15.42	15.41	413	133	0.25	0.154138	21.38	1.969	0.755	2.725	2.969	1.739
15.45	15.44	413	133	0.25	0.154428	21.39	1.968	0.755	2.723	2.968	1.739
15.48	15.47	412	133	0.25	0.154718	21.40	1.963	0.755	2.717	2.963	1.736
15.50	15.49	412	133	0.25	0.154928	21.40	1.962	0.755	2.717	2.962	1.756
15.52	15.51	412	133	0.25	0.155148	21.41	1.962	0.755	2.716	2.962	1.736
15.55	15.54	411	133	0.24	0.155427	21.42	1.956	0.758	2.714	2.956	1.736
15.58	15.57	412	133	0.24	0.155717	21.42	1.960	0.758	2.718	2.960	1.738
15.60	15.59	411	133	0.24	0.155937	21.43	1.955	0.758	2.713	2.955	1.735
15.63	15.62	411	133	0.24	0.156217	21.44	1.954	0.758	2.712	2.954	1.735
15.65	15.64	411	133	0.24	0.156437	21.44	1.954	0.758	2.711	2.954	1.734
15.68	15.67	410	133	0.24	0.156727	21.45	1.948	0.758	2.706	2.948	1.732
15.71	15.70	410	133	0.24	0.157007	21.46	1.948	0.758	2.705	2.948	1.731
15.73	15.72	409	132	0.24	0.157227	21.46	1.943	0.760	2.703	2.943	1.732
15.76	15.75	409	133	0.24	0.157516	21.47	1.942	0.758	2.699	2.942	1.728
15.79	15.78	409	132	0.24	0.157806	21.48	1.941	0.760	2.702	2.941	1.731
15.82	15.81	408	132	0.24	0.158086	21.48	1.936	0.760	2.696	2.936	1.728
15.84	15.83	408	132	0.24	0.158306	21.49	1.935	0.760	2.696	2.935	1.728
15.87	15.86	408	132	0.24	0.158596	21.50	1.935	0.760	2.695	2.935	1.728
15.89	15.88	408	132	0.24	0.158806	21.50	1.934	0.760	2.694	2.934	1.727
15.91	15.90	408	132	0.24	0.159026	21.51	1.934	0.760	2.694	2.934	1,727
15.94	15.93	408	132	0.24	0.159306	21.52	1.933	0.760	2.693	2.933	1.727
15.97	15.96	408	132	0.24	0.159596	21.52	1,932	0.760	2.693	2,932	1,726
16.00	15.99	408	132	0.24	0.159885	21.53	1,932	0,760	2,692	2,932	1,726
16.02	16.01	408	132	0.24	0.160095	21.54	1.931	0.760	2.692	2,931	1,726
16.05	16.04	408	192	0.24	0.160385	21.54	1 931	0.763	2 694	2 981	1 778
16.07	16.06	408	192	0.24	0.160605	21.55	1 930	0.763	2 693	2 930	1 778
16.10	14.00	1/10	4.95	0.54	0.100000	34.64	1.030	0.762	3,603	2 020	1 739
16.10	16.11	4/18	193	0.24	0.161105	21.56	1.929	0.763	2,692	2 929	1 738
16.15	16.14	408	192	0.24	0.161395	21.52	1 928	0.763	2 691	2 939	1 727
10.13	16.10	4/10	4.99	0.24	0.161607	24.62	1,030	0.763	3,004	2,000	4,757
16.17	16.10	400	132	0.24	0.101000	21.37	1.928	0.703	2.691	2.328	1 797
16.30	16.33	4/10	100	0.24	0.163194	21.00	1.036	0.703	3,000	2.367	1 734
40.43	10.22		4.52	0.29	0.102104	24.00	1.325	0.703	2.003	2,325	4 334
16.25	16.24	408	132	0.24	0.102394	21.60	1.928	0.763	2.689	2.325	1.725
10.23	10.20		134	0.23	0.102014	21.00	1.330	0.705	2.690	2.350	1.731
16.30	16.29	408	132	0.23	0.152894	21.61	1.975	0.765	2.691	2.925	1.728
16.32	16.31	409	1.32	0.23	0.163114	21.61	1.929	0.766	Z.695	Z.929	1.730

	Deform.	Celda	Presión	Incremento		Årea	Estuarto	13	a'1	11	Esfuerzo
Deformación	Unitaria	Carga	de poros	deporos	Deform.	Corregida	Dervision	Efectivo	Efectivo	Total	Promedio
frond.	<b>%</b>	N	(kPa)	(kgl/cm <sup>*</sup> )		(cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>*</sup> )	(kgf/cm²)	(kgt/cm <sup>2</sup> )
16.35	16.34	409	132	0.23	0.163404	21.62	1.928	0.766	2.694	2.928	1.730
16.38	16.37	409	132	0.23	0.163694	21.63	1.928	0.766	2.694	2.928	1.730
16.40	16.39	409	132	0.23	0.163904	21.63	1.927	0.765	2.693	2.927	1.729
16.42	16.41	409	132	0.23	0.164123	21.64	1.927	0.766	2.693	2.927	1.729
16.45	16.44	410	132	0.23	0.164403	21.65	1.931	0.766	2.697	2.931	1.731
16.48	16.47	410	132	0.23	0.164693	21.65	1.930	0.766	2.696	2.930	1.731
16.50	16.49	410	132	0.23	0.164913	21.66	1.930	0.765	2.695	2.930	1.731
16.52	16.51	410	132	0.23	0.165123	21.67	1.929	0.766	2.695	2.929	1.730
16.55	16.54	411	132	0.23	0.165413	21.67	1.933	0.769	2.702	2.933	1.735
16.57	16.56	411	132	0.23	0.165623	21.68	1.933	0.769	2.701	2.933	1.735
16.59	16.58	411	132	0.23	0.165843	21.68	1.932	0.769	2.701	2.932	1.735
16.62	16.61	412	132	0.23	0.166132	21.69	1.936	0.769	2.705	2.936	1.737
16.64	16.63	412	132	0.23	0.166342	21.70	1.936	0.769	2.704	2.936	1.736
16.66	16.66	412	132	0.23	0.166562	21.70	1.935	0.769	2.704	2.935	1.736
16.69	16.69	413	132	0.23	0.166852	21.71	1.939	0.769	2.708	2.939	1.738
16.71	16.71	413	132	0.23	0.167062	21.72	1.939	0.769	2.707	2.939	1.738
16.74	16.74	414	132	0.23	0.167352	21.72	1.943	0.769	2.711	2.943	1.740
16.76	16.76	414	132	0.23	0.167562	21.73	1.942	0.769	2.711	2.942	1.740
16.79	16.79	414	132	0.23	0.167852	21.74	1.942	0.769	2.710	2.942	1.739
16.82	16.81	415	132	0.23	0.168072	21.74	1.946	0.769	2.714	2.946	1.742
16.84	16.84	415	131	0.23	0.168351	21.75	1.945	0.771	2.716	2.945	1.744
16.87	16.86	415	132	0.23	0.168571	21.76	1.945	0.769	2.713	2.945	1.741
16.89	16.88	416	131	0.23	0.168781	21.76	1.949	0.771	2.720	2.949	1.746
16.92	16.91	416	131	0.23	0.169071	21.77	1.948	0.771	2.719	2.948	1.745
16.94	16.93	416	131	0.23	0.169291	21.77	1.948	0.771	2.719	2.948	1.745
16.97	16.96	416	131	0.23	0.169581	21.78	1.947	0.771	2.718	2.947	1.745
16.99	16.98	417	131	0.23	0.169791	21.79	1.951	0.771	2.722	2.951	1.747
17.01	17.00	417	131	0.23	0.170011	21.79	1.950	0.771	2.722	2.950	1.747
17.04	17.03	417	131	0.23	0.170291	21.80	1.950	0.771	2.721	2.950	1.746
17.06	17.05	418	131	0.23	0.170510	21.81	1.954	0.771	2.725	2.954	1.748
17.09	17.08	418	131	0.23	0.170800	21.81	1.953	0.771	2.725	2.953	1.748
17.11	17.10	418	131	0.23	0.171010	21.82	1.953	0.771	2.724	2.953	1.748
17.13	17.12	418	131	0.23	0.171230	21.83	1.952	0.774	2.727	2.952	1.750
17.16	17.15	418	131	0.23	0.171510	21.83	1.952	0.771	2.723	2.952	1.747
17.18	17.17	419	131	0.23	0.171730	21.84	1.956	0.774	2.730	2.956	1.752
17.21	17.20	419	131	0.23	0.172020	21.85	1.955	0.771	2.727	2.955	1.749
17.24	17.23	419	131	0.23	0.172300	21.85	1.954	0.774	2.729	2.954	1.751
17.26	17.25	418	131	0.23	0.172519	21.86	1.949	0.774	2.724	2.949	1.749
17.28	17.27	418	131	0.23	0.172739	21.87	1.949	0.774	2.723	2.949	1.749
17.31	17.30	418	131	0.23	0.173019	21.87	1.948	0.774	2.722	2.948	1.748
17.33	17.32	417	131	0.23	0.173239	21.88	1.943	0.774	2.717	2.943	1.746
17.36	17.35	417	131	0.23	0.173529	21.89	1.942	0.774	2.716	2.942	1.745
17.38	17.37	417	131	0.23	0.173739	21.89	1.942	0.774	2.716	2.942	1.745
17.40	17.40	417	131	0.23	0.173959	21.90	1.941	0.774	2.715	2.941	1.745
17.43	17.42	417	131	0.23	0.174239	21.90	1.941	0.774	2.715	2.941	1.745
17.45	17.45	416	131	0.22	0.174459	21.91	1.935	0.777	2.712	2.935	1.745
17.48	17.47	416	131	0.23	0.174668	21.92	1.935	0.774	2.709	2.935	1.742
17.50	17.50	416	131	0.22	0.174958	21.92	1.934	0.777	2.711	2.934	1.744
17.53	17.52	417	131	0.22	0.175178	21.93	1.938	0.777	2.715	2.938	1.746
17.55	17.54	417	131	0.22	0.175388	21.94	1.938	0.777	2.715	2.938	1.746
17.58	17.57	417	131	0.22	0.175678	21.94	1.937	0.777	2.714	2.937	1.746
17.60	17.59	417	131	0.23	0.175898	21.95	1.937	0.774	2.711	2.937	1.743

	Deform.	Celda	Presión	Incremento		Åres	Erfuerzo	a'3	a'1	11	Esfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Dervision	Efectivo	Efectivo	Total	Promedio
(mm)	8	N	(kPa)	(kg!/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm²)	(kgt/cm <sup>2</sup> )
17.63	17.62	417	131	0.22	0.176178	21.96	1.936	0.777	2.713	2.936	1.745
17.65	17.64	417	131	0.22	0.176398	21.96	1.935	0.777	2.713	2.935	1.745
17.68	17.67	416	131	0.22	0.176688	21.97	1.930	0.777	2.707	2.930	1.742
17.70	17.69	416	131	0.22	0.176897	21.98	1.930	0.777	2.707	2.930	1.742
17.72	17.71	416	131	0.22	0.177117	21.98	1.929	0.777	2.706	2.929	1.742
17.74	17.73	416	131	0.22	0.177327	21.99	1.929	0.777	2.706	2.929	1.741
17.77	17.76	417	131	0.22	0.177617	21.99	1.933	0.777	2.710	2.933	1.743
17.79	17.78	416	131	0.22	0.177837	22.00	1.927	0.777	2.705	2.927	1.741
17.82	17.81	416	131	0.22	0.178117	22.01	1.927	0.777	2.704	2.927	1.740
17.85	17.84	416	131	0.22	0.178407	22.02	1.926	0.777	2.703	2.926	1.740
17.87	17.86	415	131	0.22	0.178627	22.02	1.921	0.777	2.698	2.921	1.738
17.89	17.88	416	131	0.22	0.178837	22.03	1.925	0.777	2.702	2.925	1.740
17.92	17.91	415	131	0.22	0.179126	22.04	1.920	0.777	2.697	2.920	1.737
17.94	17.93	415	130	0.22	0.179336	22.04	1.919	0.780	2.699	2.919	1.739
17.97	17.96	415	130	0.22	0.179626	22.05	1.919	0.780	2.698	2.919	1.739
18.00	17.99	414	130	0.22	0.179916	22.06	1.913	0.780	2.693	2.913	1.736
18.02	18.01	414	130	0.22	0.180126	22.06	1.913	0.780	2.693	2.913	1.736
18.05	18.04	414	130	0.22	0.180416	22.07	1.912	0.780	2.692	2.912	1.736
18.08	18.07	414	130	0.22	0.180706	22.08	1.912	0.780	2.691	2.912	1.736
18.10	18.09	413	130	0.22	0.180916	22.08	1.906	0.780	2.686	2.906	1.733
18.13	18.12	413	130	0.22	0.181205	22.09	1.906	0.780	2.686	2.906	1.733
18.15	18.14	413	130	0.22	0.181425	22.10	1.905	0.780	2.685	2.905	1.732
18.18	18.17	413	130	0.22	0.181705	22.10	1.905	0.783	2.687	2.905	1.735
18.21	18.20	413	130	0.22	0.181995	22.11	1.904	0.780	2.684	2.904	1.732
18.23	18.22	412	130	0.22	0.182215	22.12	1.899	0.780	2.679	2.899	1.729
18.26	18.25	412	130	0.22	0.182495	22.13	1.898	0.783	2.681	2.898	1.732
18.28	18.27	413	130	0.22	0.182715	22.13	1.902	0.783	2.685	2.902	1.734
18.31	18.30	413	130	0.22	0.183005	22.14	1.902	0.783	2.684	2.902	1.733
18.33	18.32	413	130	0.22	0.183214	22.15	1.901	0.783	2.684	2.901	1.733
18.36	18.35	413	130	0.22	0.183504	22.15	1.900	0.783	2.683	2.900	1.733
18.38	18.37	413	130	0.22	0.183724	22.16	1.900	0.783	2.682	2.900	1.733
18.41	18.40	414	130	0.22	0.184004	22.17	1.904	0.783	2.686	2.904	1.735
18.43	18.42	413	130	0.22	0.184224	22.17	1.899	0.783	2.681	2.899	1.732
18.45	18.44	414	130	0.21	0.184434	22.18	1.903	0.785	2.688	2.903	1.737
18.47	18.47	413	130	0.22	0.184654	22.18	1.898	0.783	2.680	2.898	1.731
18.50	18.49	414	130	0.22	0.184944	22.19	1.902	0.783	2.684	2.902	1.733
18.52	18.52	414	130	0.22	0.185154	22.20	1.901	0.783	2.684	2.901	1.733
18.55	18.54	413	130	0.21	0.185443	22.21	1.896	0.785	2.681	2.896	1.733
18.57	18.57	414	130	0.21	0.185653	22.21	1.900	0.785	2.685	2.900	1.735
18.60	18.59	413	130	0.21	0.185943	22.22	1.895	0.785	2.680	2.895	1.733
18.63	18.62	412	130	0.21	0.186163	22.23	1.890	0.785	2.675	2.890	1.730
18.65	18.64	412	130	0.21	0.186373	22.23	1.889	0.785	2.675	2.889	1.730
18.68	18.67	412	130	0.21	0.186663	22.24	1.888	0.785	2.674	2.888	1.730
18.70	18.70	412	130	0.21	0.186953	22.25	1.888	0.785	2.673	2.888	1.729
18.73	18.72	412	130	0.21	0.187233	22.26	1.887	0.788	2.675	2.887	1.732
18.75	18.75	411	130	0.21	0.187453	22.26	1.882	0.788	2.670	2.882	1.729
18.78	18.77	412	130	0.21	0.187742	22.27	1.886	0.785	2.671	2.886	1.728
18.80	18.80	412	130	0.21	0.187952	22.27	1.885	0.788	2.674	2.885	1.731
18.83	18.82	412	130	0.21	0.188242	22.28	1.885	0.788	2.673	2.885	1.731
18.86	18.85	412	130	0.21	0.188462	22.29	1.884	0.788	2.672	2.884	1.730
18.88	18.87	412	130	0.21	0.188742	22.30	1.884	0.788	2.672	2.884	1.730
18.91	18.90	412	130	0.21	0.188962	22.30	1.883	0.788	2.671	2.883	1.730

	Deform.	Celda	Presión	Incremento		Årea	Estuerco	1,3	a'1	:1	Estuerzo
Deformación	Unitaria	Carga	de poros	deporos	Deform.	Corregida	Derviedor	Efectivo	Efectivo	Total	Promedio
(mm)	<b>%</b>	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kg(/cm*)	(kgi/cm²)	(kgl/cm <sup>2</sup> )	(bal/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
18.93	18.93	412	130	0.21	0.189252	22.31	1.882	0.788	2.671	2.882	1.729
18.96	18.95	412	129	0.21	0.189462	22.32	1.882	0.791	2.673	2.882	1.732
18.98	18.98	412	130	0.21	0.189751	22.32	1.881	0.788	2.669	2.881	1.729
19.01	19.00	412	130	0.21	0.189961	22.33	1.881	0.788	2.669	2.881	1.729
19.03	19.03	413	129	0.21	0.190251	22.34	1.885	0.791	2.676	2.885	1.733
19.06	19.05	413	129	0.21	0.190471	22.34	1.884	0.791	2.675	2.884	1.733
19.08	19.08	414	129	0.21	0.190751	22.35	1.888	0.791	2.679	2.888	1.735
19.11	19.10	413	129	0.21	0.190971	22.36	1.883	0.791	2.674	2.883	1.732
19.14	19.13	414	129	0.21	0.191261	22.37	1.887	0.791	2.678	2.887	1.734
19.16	19.15	414	129	0.21	0.191541	22.37	1.886	0.791	2.677	2.886	1.734
19.19	19.18	414	129	0.21	0.191830	22.38	1.886	0.794	2.679	2.886	1.737
19.21	19.21	415	129	0.21	0.192050	22.39	1.890	0.791	2.681	2.890	1.736
19.24	19.23	415	129	0.21	0.192260	22.39	1.889	0.794	2.683	2.889	1.738
19.26	19.26	415	129	0.21	0.192550	22.40	1.888	0.794	2.682	2.888	1.738
19.29	19.28	415	129	0.21	0.192840	22.41	1.888	0.794	2.682	2.888	1.738
19.31	19.30	416	129	0.21	0.193050	22.42	1.892	0.791	2.683	2.892	1.737
19.34	19.33	416	129	0.21	0.193270	22.42	1.891	0.794	2.685	2.891	1.739
19.37	19.36	417	129	0.21	0.193560	22.43	1.895	0.794	2.689	2.895	1.741
19.39	19.38	417	129	0.21	0.193770	22.44	1.895	0.794	2.688	2.895	1.741
19.42	19.41	417	129	0.21	0.194059	22.44	1.894	0.794	2.688	2.894	1.741
19.44	19.43	418	129	0.21	0.194349	22.45	1.898	0.794	2.692	2.898	1.743
19.47	19.46	418	129	0.21	0.194559	22.46	1.897	0.794	2.691	2.897	1.742
19.49	19.48	419	129	0.21	0.194849	22.47	1.901	0.794	2.695	2.901	1.744
19.52	19.51	419	129	0.21	0.195139	22.47	1.901	0.794	2.694	2.901	1.744
19.55	19.54	419	129	0.21	0.195419	22.48	1.900	0.794	2.694	2.900	1.744
19.57	19.56	420	129	0.21	0.195639	22.49	1.904	0.794	2.698	2.904	1.746
19.60	13.55	420	123	0.21	0.195919	22.30	1.903	0.794	2.007	2,303	1.740
19.62	19.61	420	129	0.21	0.196138	22.50	1.903	0.794	2,696	2.903	1.745
19.67	19.66	420	129	0.21	0.196638	22.52	1.902	0.794	2.695	2 902	1.745
19.30	10.60	435	100	0.24	0.100000	22.52	1.005	0.794	3 600	3,006	1 747
19.72	19.71	421	129	0.21	0.197078	22.53	1.905	0.794	2.699	2 905	1 746
19.75	10.74	433	1.00	0.31	0.107479	22.54	1.000	0.784	3 303	1 000	1 749
19.77	19.76	422	129	0.21	0.197578	22.54	1908	0.794	2 202	2 908	1 748
19.79	19.78	422	129	0.20	0.197788	22.55	1.908	0.797	2.704	2,908	1,750
19.82	19.81	423	129	0.20	0.198078	22.56	1.912	0,797	2,708	2.912	1,752
19.84	19.83	422	129	0.21	0.198297	22.56	1.907	0.794	2,700	2.907	1.747
19.88	19.87	423	129	0.20	0.198657	22.57	1.910	0.797	2,707	2.910	1,752
19.90	19.89	423	129	0.20	0.198867	22.58	1.910	0.797	2,706	2.910	1.751
19.92	19.91	423	129	0.20	0.199087	22.58	1.909	0.797	2.706	2.909	1.751
19.94	19.93	424	129	0.20	0.199297	22.59	1.913	0.797	2.710	2.913	1.753
19.98	19.97	423	129	0.20	0.199657	22.60	1.908	0.797	2.704	2.908	1.750
20.00	19.99	424	129	0.20	0.199877	22.61	1.912	0.797	2.708	2.912	1.752
20.02	20.01	425	129	0.20	0.200087	22.61	1.916	0.797	2.712	2.916	1.754
20.05	20.04	425	129	0.20	0.200376	22.62	1.915	0.797	2.712	2.915	1.754
20.08	20.07	425	129	0.20	0.200666	22.63	1.914	0.797	2.711	2.914	1.754
20.10	20.09	425	128	0.20	0.200876	22.64	1.914	0.799	2.713	2.914	1.756
20.12	20.11	435	125	0.16	0.201096	22.64	1.958	0.835	2.794	2.958	1.815
				Etap	ia de falla te	ncer increm	nento				
Defense the	Deform.	Celda	Presión	Incremento	Defer	Åres	Entuenzo	a'3	11	#1	Esfuerzo
(mm)	Unitaria	Cargo	de poros	deporos	Denorm.	Corregida	Dervindor	Efectivo	Efectivo	Total	Promedio

	Deform.	Celda	Presión	Incremento		Åren	Estuerro	a'3	s'1	#1	Estuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Dervision	Electivo	Electivo	Total	Promedio
(mm)	5	N	(kPa)	(kel/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kat/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	Beatless 3
hund	14	N	(1-0-1	and and	vina n	()	a at the	and the	n	B. 45	(legt/cm)
			fered	(kp/cm)		(cm·)	(stillen)	(clu/cm )	(idb/cm.)	(kg/cm )	(kgt/cm*)
0.00	0.00	0	103	0.00	0.0000000	17.27	0.000	2.000	2.000	2.000	2.000
0.03	0.03	19	103	0.00	0.000281	17.28	0.112	1.997	2.109	2.112	2.053
0.05	0.05	45	105	0.01	0.000502	17.28	0.265	1.986	2.252	2.265	2.119
0.07	0.07	66	105	0.03	0.000722	17.29	0.389	1.972	2.361	2.389	2.167
0.09	0.09	87	107	0.04	0.000933	17.29	0.513	1.958	2.471	2.513	2.215
0.12	0.12	101	109	0.06	0.001224	17.29	0.595	1.944	2.540	2.595	2.242
0.14	0.14	111	110	0.07	0.001434	17.30	0.654	1,930	2.584	2.654	2.257
0.17	0.17	125	112	0.09	0.001655	17.30	0.736	1.914	2.650	2,736	2,282
0.19	0.19	135	113	0.10	0.001866	17.30	0.795	1,900	2.695	2,795	2.297
0.21	0.21	144	115	0.12	0.002086	17.91	0.848	1.883	2 781	2 848	2 307
0.24	0.34	150	116	0.12	0.003977	17.91	0.040	1 966	3 767	3,001	3.947
0.24	0.04	4.04		0.15	0.0002377	47.00	0.000	1.000	0.000	2.000	0.000
0.20	0.20	101	110	0.15	0.002566	17.32	0.396	1.650	2.131	2.390	2.323
0.28	0.28	1/0	120	0.17	0.002808	17.32	1.000	1.833	2.835	3.000	2.333
0.31	0.31	1//	122	0.18	0.003099	17.33	1.041	1.816	2.857	3.041	2.337
0.33	0.33	185	123	0.20	0.003310	17.33	1.088	1.799	2.888	3.088	2.343
0.35	0.35	192	125	0.22	0.003531	17.33	1.129	1.783	2.912	3.129	2.347
0.38	0.38	199	127	0.23	0.003811	17.34	1.170	1.766	2.936	3.170	2.351
0.40	0.40	206	128	0.25	0.004032	17.34	1.211	1.749	2.960	3.211	2.355
0.43	0.43	211	130	0.26	0.004323	17.35	1.240	1.735	2.975	3.240	2.355
0.45	0.45	218	131	0.28	0.004534	17.35	1.281	1.719	2.999	3.281	2.359
0.47	0.48	223	133	0.30	0.004754	17.36	1.310	1.702	3.012	3.310	2.357
0.50	0.50	229	135	0.31	0.004965	17.36	1.345	1.685	3.030	3.345	2.357
0.52	0.53	235	136	0.33	0.005256	17.36	1.380	1.671	3.051	3,380	2.361
0.55	0.55	240	138	0.35	0.005476	17.37	1,409	1.654	3.063	3,409	2.359
0.57	0.57	246	139	0.36	0.005687	17.97	1.444	1.640	3.084	3 444	2 362
0.60	0.60	250	141	0.38	0.005978	17.98	1.467	1.624	3,090	3.467	2 957
0.62	0.62	255	142	0.39	0.006189	17.38	1.496	1.610	3 105	3,496	2 958
0.64	0.64	364	1.1.1	0.45	0.000000	47.00	1 6 9 9	1 000	0.454	3 630	9.900
0.64	0.04	201	144	0.41	0.000000	17.30	1.550	1.595	3.129	3.330	2.300
0.67	0.07	200	145	0.42	0.006700	17.39	1.553	1.5/3	3.133	3.333	2.300
0.70	0.70	270	147	0.44	0.006981	17.39	1.582	1.562	3.145	3.582	2.354
0.72	0.72	274	148	0.45	0.007202	17.40	1.605	1.549	3.154	3.605	2.351
0.75	0.75	279	150	0.47	0.007492	17.40	1.634	1,535	3.169	3.634	2.352
0.77	0.77	283	151	0.48	0.007703	17.41	1.657	1.521	3.178	3.657	2.349
0.80	0.80	287	152	0.49	0.007994	17.41	1.680	1.507	3.187	3.680	2.347
0.82	0.82	291	154	0.51	0.008215	17.42	1.703	1.493	3.196	3.703	2.344
0.84	0.84	295	155	0.52	0.008425	17.42	1.726	1.479	3.205	3.726	2.342
0.87	0.87	299	157	0.54	0.008716	17.42	1.749	1.465	3.214	3.749	2.339
0.89	0.89	303	158	0.55	0.008927	17.43	1.772	1.454	3.226	3.772	2.340
0.91	0.91	306	159	0.56	0.009147	17.43	1.789	1.440	3.229	3.789	2.334
0.93	0.94	310	160	0.57	0.009368	17.44	1.812	1.429	3.241	3.812	2.335
0.96	0.96	313	162	0.59	0.009649	17.44	1.829	1.415	3.244	3.829	2.329
0.98	0.99	317	163	0.60	0.009870	17.44	1.852	1.401	3,253	3.852	2.327
1.01	1.02	320	164	0.61	0.010160	17.45	1.869	1,390	3,259	3,869	2,324
1.03	1.04	324	165	0.62	0.010371	17.45	1.892	1 978	3,271	3,892	2 325
1.04	1.04	220	163	0.64	0.01/0602	17.44	1.010	1 945	2 200	2.040	3 2 2 2 2
4.00	1.05	348	407	0.04	0.040632	17.40	1.015	1.303	3.400	0.013	2.362
1.06	1.00	330	100	0.05	0.010073	17.40	1.920	4,040	3.480	3,325	0.044
1.11	1.11	353	109	0.05	0.011093	17.47	1.543	1.342	3.485	3,343	2.314
1.14	1.14	336	170	0.67	0.011384	17.47	1.960	1.331	3.291	3.960	2.311
1.16	1.16	340	171	0.68	0.011595	17.48	1.983	1.320	3.303	3.983	2.312
1.18	1.18	343	172	0.69	0.011815	17.48	2.000	1.309	3.309	4.000	2.309
1.20	1.20	346	173	0.70	0.012026	17.48	2.017	1.298	3.315	4.017	2.306

	Deform.	Celda	Presión	Incremento		Åres	Estuence	:3	a'1	=1	Estuerzo
Deformación	Unitaria	Carga	de poros	deporos	Deform.	Corregida	Derviedor	Electivo	Efectivo	Total	Promedio
(mm)		N	(kPa)	(kgt/cm <sup>2</sup> )	Uniteria	(cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
1.23	1.23	349	174	0.71	0.012317	17.49	2.034	1.289	3.324	4.034	2,306
1.25	1.25	352	175	0.72	0.012538	17.49	2.051	1.278	3.329	4.051	2.304
1.28	1.28	355	176	0.73	0.012818	17.50	2.068	1.267	3,335	4.068	2,301
1.30	1.30	358	177	0.74	0.013039	17.50	2.085	1,259	3.344	4.085	2,301
1 32	1 32	360	178	0.75	0.013250	17.50	2.096	1 248	3 344	4.096	2 296
1.34	1.35	364	179	0.76	0.013470	17.51	2,119	1,239	3,358	4,119	2,299
1.37	1.38	366	180	0.77	0.013761	17.51	2.130	1.228	3,358	4.130	2.293
1.40	1.40	369	181	0.78	0.014042	17.52	2 147	1 2 2 0	3 367	4 147	2 293
1.42	1.43	372	182	0.79	0.014263	17.52	2.164	1,211	3.375	4.164	2,293
1.44	1.45	374	183	0.80	0.014473	17.58	2.175	1 203	3.378	4.175	2,291
1.47	1.48	377	184	0.81	0.014764	17.53	2.192	1.192	3.384	4,192	2.288
1.49	1.50	379	185	0.82	0.014985	17.54	2.203	1.183	3.387	4.203	2.285
1.52	1.52	382	185	0.82	0.015195	17.54	2.220	1.178	3,398	4.220	2.288
1.54	1.55	384	185	0.83	0.015486	17.54	2.231	1.169	3,401	4.231	2.285
1.57	1.57	387	187	0.84	0.015707	17.55	2.248	1.161	3,409	4.248	2.285
1.59	1.60	390	188	0.85	0.015988	17.55	2.265	1.153	3,418	4.265	2.285
1.62	1.62	392	189	0.86	0.016209	17.56	2.276	1.144	3,420	4.276	2.282
1.64	1.64	395	190	0.86	0.016419	17.56	2.293	1.136	3.429	4,293	2.282
1.67	1.67	398	190	0.87	0.016710	17.57	2.310	1.130	3,440	4.310	2.285
1.69	1.69	400	191	0.88	0.016931	17.57	2.321	1.122	3.443	4.321	2.282
1.71	1.71	403	191	0.88	0.017141	17.57	2.338	1.117	3,454	4,338	2.285
1.74	1.74	405	192	0.89	0.017432	17.58	2.348	1.111	3,459	4.348	2.285
1.76	1.77	408	193	0.90	0.017653	17.58	2.365	1.103	3,468	4.365	2.285
1.79	1.79	410	193	0.90	0.017934	17.59	2.376	1.097	3,473	4.376	2.285
1.81	1.82	413	194	0.91	0.018154	17.59	2.393	1.089	3.482	4.393	2.285
1.83	1.84	415	195	0.92	0.018365	17.60	2.404	1.083	3,487	4.404	2.285
1.85	1.86	417	195	0.92	0.018586	17.60	2.415	1.077	3.493	4.415	2.285
1.88	1.89	420	196	0.93	0.018877	17.61	2.432	1.072	3,504	4.432	2.288
1.90	1.91	422	196	0.93	0.019087	17.61	2.443	1.066	3,509	4.443	2.288
1.93	1.94	425	197	0.94	0.019378	17.61	2.460	1.061	3.520	4,460	2.291
1.95	1.95	427	198	0.94	0.019518	17.62	2.471	1.055	3.526	4.471	2.291
1.98	1.98	429	198	0.95	0.019809	17.62	2.482	1.050	3.531	4.482	2.290
2.00	2.00	432	199	0.96	0.020030	17.63	2.498	1.044	3.542	4.498	2.293
2.02	2.02	434	199	0.96	0.020241	17.63	2.509	1.038	3.548	4.509	2.293
2.05	2.05	436	200	0.96	0.020531	17.63	2.520	1.036	3.556	4.520	2.296
2.06	2.07	438	200	0.97	0.020672	17.64	2.531	1.030	3.562	4.531	2.296
2.09	2.10	441	201	0.98	0.020963	17.64	2.548	1.025	3.573	4.548	2.299
2.11	2.12	443	201	0.98	0.021173	17.65	2.559	1.022	3.581	4.559	2.901
2.14	2.15	444	202	0.98	0.021464	17.65	2.564	1.016	3.580	4.564	2.298
2.16	2.17	446	202	0.99	0.021685	17.66	2.575	1.013	3.588	4.575	2.901
2.18	2.19	448	202	0.99	0.021896	17.66	2.586	1.008	3.594	4.586	2.301
2.21	2.22	450	203	0.99	0.022186	17.66	2.597	1.005	3.602	4.597	2.303
2.23	2.24	453	203	1.00	0.022407	17.67	2.614	0.999	3.613	4.614	2.306
2.26	2.26	454	203	1.00	0.022618	17.67	2.619	0.997	3.615	4.619	2.306
2.28	2.29	457	204	1.01	0.022909	17.68	2.635	0.994	3.629	4.635	2.311
2.31	2.31	459	204	1.01	0.023119	17.68	2.646	0.991	3.637	4.646	2.314
2.33	2.34	461	205	1.01	0.023410	17.69	2.657	0.986	3.642	4.657	2.314
2.36	2.36	463	205	1.02	0.023631	17.69	2.668	0.983	3.651	4.668	2.317
2.38	2.38	465	205	1.02	0.023841	17.69	2.679	0.977	3.656	4.679	2.317
2.41	2.41	467	206	1.03	0.024132	17.70	2.690	0.974	3.664	4,690	2.319
2.43	2.44	468	206	1.03	0.024353	17.70	2.695	0.972	3.666	4.695	2.319
2.46	2.46	470	205	1.03	0.024634	17.71	2.705	0.969	3.674	4.705	2.322

	Deform.	Celda	Presión	Incremento		Åres	Erfeerro	13	a'1	:1	Estuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Derviedor	Efectivo	Efectivo	Total	Promedio
(mm)	56	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(lat/cm <sup>2</sup> )	(ket/cm <sup>2</sup> )
3.84	3.85	525	214	1.11	0.038545	17.97	2.979	0.888	3.867	4,979	2.377
3.87	3.88	527	215	1.11	0.038826	17.97	2.989	0.885	3.875	4,989	2.380
3.89	3.90	527	215	1.11	0.039047	17.97	2.989	0.885	3,874	4 989	2 380
3.91	3.93	528	215	1.11	0.039258	17.98	2.994	0.885	3.879	4,994	2.382
3.94	3.95	528	215	1 11	0.039548	17.98	2 993	0.885	3.878	4 993	2 382
3.97	3.98	529	215	1.11	0.039769	17.99	2.998	0.885	3.883	4.998	2.384
3.99	4.00	530	215	1.11	0.040050	17.99	3.003	0.885	3,888	5.003	2.386
4.02	4.03	531	215	1.11	0.040271	18.00	3,008	0.885	3,893	5.008	2 389
4.04	4.06	532	215	1.11	0.040561	18.00	3.012	0.885	3,897	5.012	2,391
4.07	4.08	532	215	1 11	0.040772	18.01	3.012	0.885	3,897	5.012	2 991
4.09	4.10	532	215	1 11	0.040993	18.01	3.011	0.885	3,895	5.011	2 991
4.12	4.13	533	215	1.12	0.041284	18.02	3.016	0.882	3,898	5.016	2,390
4.14	4.15	534	215	1 11	0.041494	18.02	3 021	0.885	3,906	5.021	2 396
4.16	4.17	534	215	1 11	0.041715	18.02	3 020	0.885	3 905	5.020	2 995
4.18	4.19	595	215	1.12	0.041925	18.03	3.025	0.882	3.907	5.025	2 995
4.21	4.32	595	215	1 11	0.042216	18.03	3.024	0.885	3,909	5.024	2 997
4.23	4.94	536	215	1 12	0.043437	18.04	3.029	0.882	3,911	5.029	2 997
4.35	4.96	536	215	1.11	0.043648	18.04	3.028	0.885	3.914	5.028	2 999
4.78	4.29	538	215	1 12	0.042939	18.05	3,039	0.882	3.921	5.039	2,402
4.30	4.31	538	215	1 12	0.043149	18.05	3.038	0.882	3 920	5.038	2.401
4.93	4.34	539	215	1.11	0.043440	18.05	3.043	0.885	3,928	5.043	2.402
4.35	4.37	540	215	1 11	0.043661	18.05	3.043	0.885	3,933	5.048	2,409
4.00	4 30	640	345	4.44	0.042043	19.07	2.047	0.005	2,022	E 047	3,400
4.40	4.30	540	215	1.11	0.043942	18.07	3.047	0.885	3,352	5.057	2,400
4.43	4.45	542	215	1 11	0.044453	18.08	3.056	0.885	3.942	5.056	2,413
4,45	4.46	640	245	4.44	0.044560	10.00	3,063	0.000	2.047	5.063	3.416
4.45	4,50	543	215	1.11	0.044955	18.09	3.066	0.885	3.347	5.052	2,410
4.50	4.50	644	245	4.44	0.045165	10.00	3.000	0.005	0.051	E OCE	2,410
4.50	4.52	544	213	1.11	0.045165	18.10	3.000	0.000	3.351	5.065	2,410
4.55	4.57	546	214	1 11	0.045677	18.10	3.075	0.000	2.962	5.075	2,426
4.50	4.60	647	244	4.44	0.045050	10.10	3.090	0.000	0.000	5.090	3,439
4.60	4.60	640	214	1 11	0.046179	10.11	2,060	0.000	2,079	5.000	3,433
4,00	4.02	240	2.04	4.44	0.046200	10.11	3.000	0.000	3.370	5.090	2,400
4,00	4,67	243	2.24	4.44	0.046223	10.11	3.090	0.000	3.379	5.050	2,433
4.69	4.60	551	2.04	1.11	0.046000	10.12	2,000	0.000	3,300	5.000	2,430
4.75	4.72	660	244	4.44	0.047191	10.10	2,110	0.001	4.000	5.110	2.446
4.71	4.74	223	2.04	4.14	0.047191	10.13	3.110	0.001	4.000	5.110	2,440
4.73	4.77	204	2.04	4.44	0.047682	10.13	3.113	0.001	4.005	5.115	2,440
4.70	4.90	224	2.04	1.11	0.047093	10.14	3.119	0.891	4.009	5.119	2,490
4.91	4.93	200	2.04	1.11	0.049104	10.19	2,110	0.001	4.047	5.110	3.450
4.00	4.04	0.00	2.04	4.44	0.040440	10.10	5 4 5 5	0.004	4.033	C 430	3,453
4.00	4.09	227	2.04	1.11	0.04060415	10.15	3.120	0.004	4.022	5.120	2,400
4.00	9,97	220	2.04	1.11	0.040030	10.10	3.133	0.004	9.020	5.133	2,400
4.88	4.89	558	214	1.11	0.048916	18.15	3.132	0.894	4.026	5.132	2.460
4.91	9.32	200	2.14	1.11	0.049207	10.17	3.142	0.694	4,035	2,142	2,460
4.95	4.34	000	215	1.10	0.049418	10.17	3.142	0.005	4.055	3.142	2.407
4.35	4.56	262	213	1.10	0.049639	18.17	3.152	0.895	4.048	5.152	2.472
4.38	4.33	362	215	1.10	0.049919	10.15	3.151	0.895	4.047	5.151	2.472
5,00	5.01	563	215	1.10	0.050140	10.18	3.138	0.005	4.002	3.150	2.4/4
5.04	5.05	564	213	1.10	0.050501	18.19	5.160	0.899	4.060	5.160	2.479
5.06	5.07	263	213	1.10	0.050/12	18.20	3.165	0.899	4.064	5.165	2.482
5.09	5.10	565	213	1.10	0.051003	18.20	3.164	0.899	4.065	5.164	2.481
5.11	5.12	566	213	1.10	0.051223	18.21	3.169	0.899	4.068	5.169	Z.484

	Deform.	Celda	Presión	incremento		Åres	Estuenco	13	a'1	a1	Esfuerzo
Deformación	Unitaria	Carga	de poros	deporos	Deform.	Corregida	Derviedor	Electivo	Efectivo	Total	Promedio
(mm)	56	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kg(/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
5.14	5.15	567	213	1.10	0.051504	18.21	3.174	0.902	4.076	5.174	2.489
5.16	5.17	568	213	1.10	0.051725	18.21	3.179	0.902	4.081	5.179	2.491
5.19	5.20	569	213	1.10	0.052016	18.22	3.183	0.902	4.085	5,183	2,494
5.21	5.22	570	213	1.10	0.052226	18.22	3.188	0.905	4.093	5.188	2,499
5.24	5.25	570	218	1.10	0.052517	18.23	3 187	0.905	4.092	5 187	2 498
5.26	5.27	571	213	1.10	0.052738	18.23	3,192	0.905	4.097	5,192	2,501
5.29	5.30	572	213	1.10	0.053019	18.24	3.197	0.905	4.101	5.197	2,503
5.81	5.82	572	213	1.10	0.053239	18.24	3 196	0.905	4 101	5 196	2 503
5.33	5.34	573	212	1.09	0.053450	18.25	3.201	0.907	4.108	5.201	2,508
5.36	5.37	573	212	1.09	0.053741	18.25	3,200	0.907	4.107	5.200	2.507
5.39	5.40	575	212	1.09	0.054032	18.26	3 210	0.907	4.118	5 210	2 513
5.41	5.42	575	212	1.09	0.054242	18.26	3.209	0.910	4.120	5.209	2.515
5.43	5.45	576	212	1.09	0.054463	18.27	3 214	0.910	4.124	5 214	2 517
5.46	5.48	577	212	1.09	0.054754	18.27	3 2 1 9	0.913	4 132	5 219	2 522
5.49	5.50	\$77	212	1.09	0.055035	18.28	3 218	0.913	4 131	5 218	2 5 2 2
5.51	5.53	578	212	1.09	0.055255	18.28	3 2 2 3	0.913	4.136	5 223	2 5 3 4
5.54	5 5 5	579	212	1.09	0.055546	18.29	3 227	0.913	4 140	5 227	2 5 3 7
CCC	C CO	670	242	1.02	0.000707	10.30	0.007	0.016	4 142	6 337	3 630
3.39	5.50	573	242	1.00	0.055079	19.20	3.227	0.916	4.147	5.227	2,525
5.50	5,69	580	212	1.00	0.055368	18.30	3,231	0.916	4.146	5 230	2,552
5.04	0.00	200	2.04	4.00	0.000000	40.00	3.2.30	0.040		5.005	0.004
3.04	0.00	201	211	1.00	0.056770	10.31	3.233	0.919	4.159	5.235	2.330
3.00	5.00	201	211	1.06	0.055770	10.31	3.239	0.919	9.155	5.234	2.330
5.69	5.71	581	211	1.08	0.057061	18.32	3.253	0.921	4.155	5.233	2.538
5.71	5.73	582	211	1.08	0.057271	18.32	3.238	0.921	4.159	5.238	2.540
5.73	5.75	562	211	1.08	0.057492	18.33	3.237	0.921	4.159	5.237	2.540
5.75	5.77	583	211	1.08	0.057703	18.33	3.242	0.924	4.165	5.242	2.545
5.78	5.80	583	211	1.08	0.057994	18.34	3.241	0.924	4.165	5.241	2.545
5.81	5.83	583	211	1.08	0.058284	18.34	3.240	0.924	4.164	5.240	2.544
5.84	5,86	584	211	1.08	0.058565	18.35	3.245	0.924	4.169	5.245	2.547
5.85	5.88	584	210	1.07	0.058786	18.35	3.244	0.927	4.171	5.244	2.549
5.89	5.91	584	210	1.07	0.059077	18.36	3.243	0.927	4.170	5.243	2.548
5.92	5.94	585	210	1.07	0.059358	18.35	3.248	0.927	4.174	5.248	Z.551
5.94	5.96	585	210	1.07	0.059578	18.37	3.247	0.930	4.177	5.247	2.553
5.96	5.98	586	210	1.07	0.059799	18.37	3.252	0.930	4.181	5.252	2.556
5.99	6.01	586	210	1.07	0.060080	18.38	3.251	0.930	4.180	5.251	2.555
6.02	6.04	586	210	1.07	0.060371	18.38	3.250	0.933	4.182	5.250	2.557
6.03	6.05	586	210	1.07	0.060511	18.39	3.249	0.933	4.182	5.249	2.557
6.07	6.09	587	210	1.06	0.060872	18.39	3.253	0.935	4.189	5.253	2.562
6.09	6.11	587	210	1.05	0.061093	18.40	3.253	0.935	4.188	5.253	2.562
6.11	6.13	587	210	1.05	0.061304	18.40	3.252	0.935	4.187	5.252	2.561
6.13	6.15	588	210	1.06	0.061524	18.41	3.257	0.935	4.192	5.257	2.564
6.16	6.18	588	209	1.05	0.061815	18.41	3.256	0.938	4.194	5.256	2.566
6.19	6.21	588	209	1.06	0.062096	18.42	3.255	0.938	4.193	5.255	2.565
6.21	6.23	588	209	1.06	0.062317	18.42	3.254	0.938	4.192	5.254	2.565
6.24	6.26	589	209	1.06	0.062607	18.43	3.258	0.941	4.199	5.258	2.570
6.26	6.28	589	209	1.05	0.062818	18.43	3.258	0.941	4.199	5.258	2.570
6.29	6.30	590	209	1.05	0.063039	18.43	3.262	0.941	4.203	5.262	2.572
6.31	6.33	591	209	1.06	0.063320	18.44	3.267	0.944	4.211	5.267	2.577
6.29	6.30	591	209	1.06	0.063039	18.43	3.268	0.941	4.209	5.268	2.575
6.36	6.38	591	209	1.06	0.063831	18.45	3.265	0.944	4.209	5.265	2.576
6.39	6.40	591	208	1.05	0.064042	18.45	3.264	0.946	4.211	5.264	2.579
6.41	6.43	591	208	1.05	0.064333	18.46	3.263	0.946	4.210	5.263	2.578

	Deform.	Celda	Presión	Incremento		Åres	Liferro .	13	11	11	Esfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Dervindor	Efectivo	Efectivo	Total	Promedio
(mm)	5	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm²)	(ket/cm <sup>2</sup> )
6.44	6.46	592	208	1.05	0.064553	18.46	3.268	0.949	4.218	5.268	2.583
6.46	6.48	592	208	1.05	0.064834	18.47	3.267	0.949	4.217	5.267	2.583
6.49	6.51	592	208	1.05	0.065055	18.47	3.266	0.952	4.219	5.266	2.585
6.52	6.53	593	208	1.05	0.065346	18.48	3.271	0.952	4.223	5.271	2.588
6.54	6.56	593	208	1.05	0.065556	18.48	3.270	0.952	4.222	5.270	2.587
6.57	6.58	594	208	1.05	0.065847	18.49	3.275	0.952	4.227	5.275	2.589
6.59	6.61	594	208	1.05	0.066138	18.50	3.274	0.955	4.229	5.274	2.592
6.62	6.63	594	207	1.04	0.066349	18.50	3.273	0.958	4.231	5.273	2.594
6.59	6.61	594	208	1.05	0.066058	18.49	3.274	0.955	4.229	5.274	2.592
6.67	6.69	595	207	1.04	0.066850	18.51	3.277	0.958	4.234	5.277	2.596
6.69	6.71	596	207	1.04	0.067071	18.51	3.281	0.960	4.242	5.281	2.601
6.72	6.74	595	207	1.04	0.067362	18.52	3.275	0.960	4.235	5.275	2.598
6.74	6.76	597	207	1.04	0.067572	18.52	3.285	0.960	4.246	5.285	2.603
6.77	6.79	597	207	1.04	0.067863	18.53	3.284	0.963	4.247	5.284	2.605
6.79	6.81	597	207	1.04	0.068084	18.53	3.283	0.963	4.247	5.283	2.605
6.81	6.83	597	207	1.03	0.068294	18.54	3.283	0.966	4.249	5.283	2.607
6.84	6.86	598	207	1.03	0.068585	18.54	3.287	0.966	4.253	5.287	2.610
6.86	6.88	598	207	1.03	0.068796	18.55	3.286	0.966	4.252	5.286	2.609
6.88	6.90	599	205	1.03	0.069017	18.55	3.291	0.969	4.260	5.291	2.614
6.91	6.93	599	205	1.03	0.069307	18.56	3.290	0.969	4.259	5.290	2.614
6.88	6.90	600	205	1.03	0.069017	18.55	3.297	0.969	4.265	5.297	2.617
6.95	6.97	601	205	1.03	0.069739	18.57	3.300	0.972	4.271	5.300	2.621
6.98	7.00	602	205	1.03	0.070020	18.57	3.304	0.972	4.276	5.304	2.624
7.00	7.02	603	205	1.03	0.070240	18.58	3.309	0.974	4.283	5.309	2.629
7.03	7.05	605	205	1.02	0.070531	18.58	3.319	0.977	4.296	5.319	2.636
7.05	7.07	606	205	1.03	0.070742	18.59	3.323	0.974	4.298	5.323	2.636
7.08	7.10	606	205	1.02	0.070962	18.59	3.323	0.977	4.300	5.323	2.638
7.10	7.13	607	205	1.02	0.071253	18.60	3.327	0.980	4.307	5.327	2.643
7.13	7.15	607	205	1.02	0.071464	18.60	3.326	0.980	4.306	5.326	2.643
7.15	7.17	608	205	1.02	0.071685	18.61	3.351	0.983	4.314	5.331	2.648
7.18	7.20	608	205	1.02	0.071965	18.61	3.350	0.983	4.313	5.330	2.648
7.20	7.22	608	205	1.02	0.072186	18.62	3.329	0.983	4.312	5.323	2.647
7.20	7.22	609	205	1.02	0.072188	18.62	3.335	0.983	4.317	5.335	2.650
7.25	7.27	610	205	1.01	0.072000	10.03	3.330	0.300	4.329	5,336	2.000
7.27	7.23	643	200	1.01	0.0723440	10.03	3,343	0.300	4.320	0.040	2.007
7.23	7.31	610	209	1.01	0.073419	18.64	3,340	0.300	4,300	0.390	2.002
7.54	7.04	645	204	1.01	0.072620	10.05	3.334	0.000	4.949	2.322 E 254	3,009
7.34	7.30	614	204	1.01	0.073841	18.65	3,351	0.991	4 947	5,351	2,007
7 38	7,41	615	204	1.01	0.074062	18.65	3,361	0.991	4.352	5,361	2,671
7.41	7.49	616	204	1.01	0.074949	10.00	336.6	0.004	4 950	E DEE	3 676
7.43	7.45	617	204	1.01	0.074493	18.66	3.370	0.994	4364	5.370	2.679
7.46	7.48	617	208	1.00	0.074784	18.67	3 369	0.997	4 366	5 369	2,681
7.48	7.51	618	208	1.00	0.075065	18.67	3.373	0.997	4.370	5.379	2.683
7.51	7.53	618	203	1.00	0.075285	18.68	3.373	0.997	4.369	5.373	2.683
7.53	7.55	618	203	1.00	0.075496	18.68	3.372	0.999	4.371	5.372	2.685
7.56	7.58	619	203	1.00	0.075787	18.69	3.376	0.999	4.376	5.376	2.688
7.59	7.61	619	203	1.00	0.076078	18.69	3.375	0.999	4.375	5.375	2.687
7.61	7.63	619	203	1.00	0.076288	18.70	3.374	1.002	4.377	5.374	2.689
7.63	7.65	620	203	0.99	0.076509	18.70	3.379	1.005	4.384	5.379	2.695
7.66	7.68	620	203	0.99	0.076800	18.71	3.378	1.005	4.383	5.378	2.694
7.69	7.71	620	203	0.99	0.077081	18.72	3.377	1.005	4.382	5.377	2.694

	Deform.	Celda	Presión	Incremento		Årea	Lifeetto -	:3	a'1	:1	Estuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Dervindor	Efectivo	Efectivo	Total	Promedio
(mm)	56	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kg(/cm <sup>*</sup> )	(kgt/cm <sup>2</sup> )	(kgi/cm <sup>*</sup> )	(hel/cm²)	(kgt/cm <sup>2</sup> )
7.71	7.73	621	202	0.99	0.077301	18.72	3.382	1.008	4.389	5.382	2.699
7.74	7.76	621	202	0.99	0.077592	18.73	3.381	1.008	4.388	5.381	2.698
7.76	7.79	621	202	0.99	0.077873	18.73	3.380	1.011	4.390	5.380	2.700
7.79	7.81	621	202	0.99	0.078094	18.74	3.379	1.011	4.389	5.379	2.700
7.82	7.84	622	202	0.99	0.078385	18.74	3.383	1.011	4.394	5.383	2.702
7.84	7.87	621	202	0.99	0.078665	18.75	3.377	1.013	4.390	5.377	2.702
7.87	7.89	621	202	0.99	0.078886	18.75	3.376	1.013	4.389	5.376	2.701
7.89	7.92	622	202	0.98	0.079177	18.76	3.380	1.016	4.396	5.380	2.706
7.92	7.94	622	202	0.98	0.079388	18.76	3.379	1.016	4.396	5.379	2.706
7.94	7.97	623	202	0.98	0.079679	18.77	3.384	1.016	4.400	5.384	2.708
7.97	7.99	622	201	0.98	0.079899	18.77	3.378	1.019	4.396	5.378	2.708
7.99	8.02	623	201	0.98	0.080180	18.78	3.382	1.019	4.401	5.382	2.710
8.02	8.05	622	201	0.98	0.080471	18.78	3.375	1.022	4.397	5.375	2.709
8.05	8.07	622	201	0.98	0.080692	18.79	3.375	1.022	4.396	5.375	2.709
8.07	8.10	622	201	0.98	0.080972	18.79	3.374	1.025	4.398	5.374	2.711
8.10	8.13	622	201	0.98	0.081263	18.80	3.373	1.025	4.397	5.373	2.711
8.12	8.15	622	200	0.97	0.081484	18.80	3.372	1.027	4.399	5.372	2.713
8.15	8.18	623	200	0.97	0.081765	18.81	3.376	1.027	4.403	5.376	2.715
8.18	8.21	623	200	0.97	0.082056	18.82	3.375	1.030	4.405	5.375	2.718
8.20	8.23	624	200	0.97	0.082276	18.82	3.380	1.030	4.410	5.380	2.720
8.23	8.26	624	200	0.97	0.082557	18.83	3.379	1.033	4.411	5.379	2.722
8.26	8.28	625	200	0.97	0.082848	18.83	3.383	1.033	4.416	5.383	2.724
8.28	8.31	625	200	0.97	0.083069	18.84	3.382	1.033	4.415	5.382	2.724
8.31	8.33	625	200	0.96	0.083349	18.84	3.381	1.036	4.417	5.381	2.726
8.34	8.36	627	200	0.96	0.083640	18.85	3.391	1.036	4.426	5.391	2.731
8.38	8.40	628	199	0.96	0.084001	18.86	3.395	1.038	4.433	5.395	2.736
8.40	8.42	629	199	0.96	0.084222	18.86	3.399	1.038	4.438	5.399	2.738
8.43	8.45	628	199	0.96	0.084503	18.87	3.393	1.038	4.431	5.393	2.735
8.45	8.47	628	199	0.96	0.084724	18.87	3.392	1.041	4.433	5.392	2.737
8.48	8.50	628	199	0.96	0.085014	18.88	3.391	1.041	4.432	5.391	2.737
8.50	8.52	627	199	0.96	0.085225	18.88	3.385	1.041	4.426	5.385	2.734
8.52	8.54	628	199	0.96	0.085446	18.89	3.390	1.044	4.434	5.390	2.739
8.55	8.57	628	199	0.96	0.085727	18.89	3.388	1.044	4.433	5.388	2.738
8.57	8.59	628	198	0.95	0.085947	18.90	3.388	1.047	4.435	5.388	2.741
8.60	8.62	628	198	0.95	0.086238	18.90	3.387	1.047	4.433	5.387	2.740
8.63	8.65	628	198	0.95	0.086519	18.91	3.386	1.047	4.432	5.386	2.740
8.65	8.67	629	198	0.95	0.085740	18.91	3.390	1.050	4,440	5.390	2.745
8.68	8.70	628	198	0.95	0.087031	18.92	3.384	1.052	4.436	5.384	2.744
8.71	8.73	629	198	0.95	0.087311	18.93	3.388	1.052	4.440	5.388	2.746
8.73	8.75	629	198	0.95	0.087532	18.93	3.387	1.052	4.440	5.387	2.746
8.75	8.77	629	198	0.95	0.087743	18.93	3.386	1.052	4.439	5.386	2.746
8.78	8.80	629	198	0.94	0.088034	18.94	3.385	1.055	4.441	5.385	2.748
8.80	8.83	629	198	0.94	0.088254	18.94	3.385	1.055	4.440	5.385	2.747
8.82	8.85	629	197	0.94	0.088465	18.95	3.384	1.058	4.442	5.384	2.750
8.85	8.88	629	197	0.94	0.088756	18.96	3.383	1.058	4.441	5.383	2.749
8.87	8.90	628	197	0.94	0.088976	18.96	3.376	1.058	4.434	5.376	2.746
8.90	8.93	629	197	0.94	0.089257	18.97	3.381	1.061	4.442	5.381	2.751
8.92	8.95	628	197	0.94	0.089478	18.97	3.375	1.061	4.435	5.375	2.748
8.95	8.98	629	197	0.94	0.089769	18.98	3.379	1.061	4.440	5.379	2.750
8.97	9.00	628	197	0.94	0.089979	18.98	3.373	1.064	4.436	5.373	2.750
8.99	9.02	628	197	0.94	0.090200	18.99	3.372	1.064	4.435	5.372	2.750
9.01	9.04	628	196	0.93	0.090411	18.99	3.371	1.066	4.437	5.371	2.752

	Deform.	Celda	Preskin	Incremento		Åres	Lifuento	13	11	11	Esfuerzo
Deformación	Unitaria	Cares	de poros	deportos	Deform.	Correction	Dervindor	Electivo	Efectivo	Total	Promedio
(mm)	56	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(ligt/cm <sup>2</sup> )	Bertlem
9.04	9.06	627	196	0.93	0.090631	18.99	3 365	1.066	4.431	5 965	2 749
9.07	9.09	627	196	0.93	0.090922	19.00	3 364	1.055	4.430	5 964	2 748
9.09	9.11	628	196	0.93	0.091133	19.00	3.368	1.069	4.438	5 968	2 753
9.12	9.14	638	196	0.93	0.091424	19.01	3 367	1.069	4.436	5 367	2.753
0.14	0.17	639	100	0.00	0.001715	10.00	0.000	1.060	4.495	5.000	2,752
9.14	9.17	637	100	0.93	0.091/15	19.02	3,300	1.009	4,400	5.300	2.752
9.19	9.21	627	196	0.93	0.092146	19.03	2 259	1.072	4.431	5 959	2 752
0.25	0.24	636	100	0.02	0.0030256	10.02	0.000	1.072	4.495	E 0E0	3 780
9.21	0.25	636	100	0.93	0.092356	19.05	3,333	1.075	4.437	5,353	2.743
3.24	3.20	020	100	0.00	0.002047	10.04	3.332	1.075	4.427	0.302	2.731
9.25	9.29	020	195	0.93	0.092858	19.04	3.351	1.075	4.425	5.351	2.750
9.20	9.31	626	195	0.93	0.093079	19.05	3.351	1.075	4,425	5.351	2.750
3.31	0.04	020	130	0.33	0.003500	13.00	3.343	1.073	4,424	2,343	2.740
3.33	3.30	043	135	0.92	0.003034	19.05	3,343	1.077	4.421	2,343	2.749
3.30	9.39	043	135	0.92	0.0030071	13.05	3.342	1.000	4,420	3.344	2.740
9.38	9.41	625	195	0.92	0.094092	19.07	3.341	1.080	4.422	5.341	2.751
9,40	9.43	624	195	0.92	0.094302	19.07	3.335	1.080	4.416	5.335	2.748
9,43	9,46	624	195	0.92	0.094593	19.08	3.334	1.080	4.415	5.334	2.147
9.48	9,49	624	195	0.92	0.094884	19.08	3.353	1.085	4.416	5.333	2.750
9.48	9.51	625	195	0.92	0.095095	19.09	3.338	1.083	4.421	5.338	2.752
9.51	9.54	625	195	0.92	0.095386	19.09	3.337	1.083	4.420	5.337	2.751
9.53	9.56	625	195	0.92	0.095596	19.10	3.336	1.083	4.419	5.336	2.751
9.55	9.58	625	195	0.91	0.095817	19.10	3.335	1.085	4.421	5.335	2.753
9.58	9.61	626	195	0.91	0.096108	19.11	3.339	1.086	4.425	5.339	2.756
9.61	9.64	627	194	0.91	0.095389	19.12	3.344	1.089	4.432	5.344	2.760
9.63	9.66	627	194	0.91	0.096609	19.12	3.343	1.089	4.431	5.343	2.760
9.65	9.68	627	195	0.91	0.096830	19.12	3.342	1.086	4.428	5.342	2.757
9.68	9.70	628	194	0.91	0.097040	19.13	3.347	1.089	4.435	5.347	2.762
9.70	9.73	628	194	0.91	0.097331	19.14	3.345	1.089	4.434	5.345	2.761
9.73	9.75	629	194	0.91	0.097542	19.14	3.350	1.091	4.441	5.350	2.766
9.75	9.78	629	194	0.91	0.097833	19.15	3.349	1.091	4.440	5.349	2.766
9.78	9.81	630	194	0.91	0.098124	19.15	3.353	1.091	4.445	5.353	2.768
9.80	9.83	631	194	0.91	0.098334	19.16	3.358	1.091	4.449	5.358	2.770
9.83	9.86	631	194	0.91	0.098625	19.16	3.357	1.094	4.451	5.357	2.773
9.86	9.89	632	194	0.91	0.098916	19.17	3.361	1.094	4.455	5.361	2.775
9.88	9.91	633	194	0.91	0.099127	19.17	3.365	1.094	4.460	5.365	2.777
9.91	9.94	633	194	0.91	0.099418	19.18	3.364	1.094	4.459	5.364	2.776
9.93	9.96	634	194	0.91	0.099638	19.18	3.369	1.094	4.463	5.369	2.779
9.96	9.99	634	193	0.90	0.099919	19.19	3.368	1.097	4.465	5.368	2.781
9.98	10.01	635	193	0.90	0.100140	19.19	3.372	1.097	4.469	5.372	2.783
10.01	10.04	634	193	0.90	0.100431	19.20	3.366	1.097	4.463	5.366	2.780
10.04	10.07	635	193	0.90	0.100711	19.21	3.370	1.097	4.467	5.370	2.782
10.06	10.09	635	193	0.90	0.100932	19.21	3.369	1.100	4.469	5.369	2.784
10.09	10.12	636	193	0.90	0.101223	19.22	3.373	1.100	4.473	5.373	2.787
10.11	10.14	637	193	0.90	0.101434	19.22	3.378	1.100	4.478	5.378	2.789
10.14	10.17	636	193	0.90	0.101724	19.23	3.372	1.100	4.471	5.372	2.786
10.17	10.20	638	193	0.90	0.102015	19.23	3.381	1.103	4.484	5.381	2.793
10.19	10.22	638	193	0.90	0.102226	19.24	3.380	1.103	4.483	5.380	2.793
10.22	10.25	638	193	0.90	0.102517	19.25	3.379	1.103	4.482	5.379	2.792
10.25	10.28	638	193	0.90	0.102808	19.25	3.378	1.103	4.481	5.378	2.792
10.28	10.31	638	193	0.90	0.103089	19.26	3.377	1.103	4.480	5.377	2.791
10.30	10.33	639	193	0.89	0.103309	19.26	3.382	1.105	4.487	5.382	2.796
10.32	10.35	639	193	0.89	0.103530	19.27	3.381	1.105	4.486	5.381	2.796

	Deform.	Celda	Presión	Incremento		Åres	Estuento	13	11	:1	Estuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Derviedor	Efectivo	Electivo	Total	Promedio
(mm)	5	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kg(/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(ligt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
10.35	10.38	639	193	0.89	0.103811	19.27	3.380	1.105	4,485	5.380	2,795
10.37	10.40	640	192	0.89	0.104031	19.28	3.384	1.108	4,492	5.384	2.800
10.40	10.43	639	193	0.89	0.104322	19.28	3.378	1.105	4,483	5.378	2,794
10.43	10.46	640	192	0.89	0.104603	19.29	3.382	1.108	4,490	5.382	2.799
10.45	10.48	640	192	0.89	0.104824	19.30	3,381	1.108	4,489	5.381	2,799
10.48	10.51	640	192	0.89	0.105115	19.30	3.380	1.108	4,488	5.380	2.798
10.51	10.54	641	192	0.89	0.105395	19.31	3.384	1.108	4,492	5.384	2.800
10.53	10.56	641	192	0.89	0.105616	19.31	3.383	1.108	4,492	5.383	2.800
10.55	10.58	642	192	0.89	0.105827	19.32	3.388	1.111	4,499	5.388	2.805
10.58	10.61	641	192	0.89	0.105118	19.32	3.382	1.111	4,492	5.382	2.802
10.60	10.63	642	192	0.89	0.106338	19.33	3.386	1.111	4,497	5.386	2.804
10.63	10.66	642	192	0.89	0.105619	19.33	3.385	1.111	4,496	5.385	2.803
10.65	10.68	642	192	0.89	0.105840	19.34	3.384	1.114	4,498	5.384	2.806
10.68	10.71	643	192	0.89	0.107131	19.35	3.388	1.114	4.502	5.388	2.808
10.70	10.73	643	192	0.89	0.107341	19.35	3.387	1.114	4,501	5.387	2.807
10.73	10.76	643	192	0.89	0.107632	19.36	3.386	1.114	4.500	5.386	2.807
10.75	10.78	643	192	0.89	0.107843	19.36	3.386	1.114	4,499	5.386	2.806
10.78	10.81	643	192	0.89	0.108134	19.37	3.384	1.114	4,498	5.384	2.806
10.80	10.84	643	191	0.88	0.108354	19.37	3.384	1.117	4.500	5.384	2.808
10.82	10.86	643	191	0.88	0.108565	19.38	3.383	1.117	4.499	5.383	2.808
10.85	10.89	643	191	0.88	0.108856	19.38	3.382	1.117	4,498	5.382	2.807
10.88	10.91	643	191	0.88	0.109077	19.39	3.381	1.117	4.497	5.381	2.807
10.90	10.94	643	191	0.88	0.109357	19.39	3.380	1.117	4,496	5.380	2.806
10.93	10.96	643	191	0.88	0.109578	19.40	3.379	1.119	4,498	5.379	2.809
10.95	10.99	643	191	0.88	0.109869	19.40	3.378	1.119	4.497	5.378	2.808
10.98	11.01	643	191	0.88	0.110080	19.41	3.377	1.119	4,496	5.377	2.808
11.00	11.03	643	191	0.88	0.110300	19.41	3.376	1.119	4,495	5.376	2.807
11.03	11.06	643	191	0.88	0.110581	19.42	3.375	1.119	4,494	5.375	2.807
11.05	11.08	643	191	0.88	0.110802	19.43	3.374	1.119	4,494	5.374	2.806
11.08	11.11	643	191	0.88	0.111093	19.43	3.373	1.122	4.495	5.373	2.809
11.10	11.13	644	191	0.88	0.111303	19.44	3.378	1.122	4.500	5.378	2.811
11.13	11.16	643	191	0.88	0.111594	19.44	3.371	1.122	4,493	5.371	2.808
11.15	11.18	644	191	0.88	0.111815	19.45	3.376	1.122	4,498	5.376	2.810
11.18	11.21	644	191	0.88	0.112096	19.45	3.375	1.125	4,499	5.375	2.812
11.20	11.23	644	191	0.88	0.112316	19.46	3.374	1.122	4,496	5.374	2.809
11.22	11.25	645	191	0.88	0.112527	19.46	3.378	1.125	4.503	5.378	2.814
11.25	11.28	644	191	0.88	0.112818	19.47	3.372	1.125	4,497	5.372	2.811
11.28	11.31	645	191	0.88	0.113109	19.48	3.376	1.125	4.501	5.376	2.813
11.30	11.33	645	191	0.88	0.113319	19.48	3.375	1.125	4.500	5.375	2.812
11.32	11.35	645	190	0.87	0.113540	19.49	3.374	1.128	4.502	5.374	2.815
11.34	11.38	645	190	0.87	0.113750	19.49	3.374	1.128	4.501	5.374	2.814
11.37	11.40	645	190	0.87	0.114041	19.50	3.372	1.128	4.500	5.372	2.814
11.39	11.43	646	190	0.87	0.114262	19.50	3.377	1.128	4.504	5.377	2.816
11.42	11.46	645	190	0.87	0.114553	19.51	3.370	1.128	4,498	5.370	2.813
11.44	11.48	646	190	0.87	0.114764	19.51	3.375	1.130	4.505	5.375	2.818
11.46	11.50	646	190	0.87	0.114984	19.52	3.374	1.130	4.505	5.374	2.817
11.49	11.53	646	190	0.87	0.115265	19.52	3.373	1.130	4.503	5.373	2.817
11.52	11.56	647	190	0.87	0.115556	19.53	3.377	1.130	4.508	5.377	2.819
11.54	11.58	647	190	0.87	0.115777	19.53	3.376	1.130	4.507	5.376	2.819
11.56	11.60	647	190	0.87	0.115987	19.54	3.375	1.133	4.509	5.375	2.821
11.59	11.63	647	190	0.87	0.116278	19.55	3.374	1.133	4.508	5.374	2.820
11.61	11.65	647	190	0.87	0.116489	19.55	3.374	1.133	4.507	5.374	2.820

	Deform.	Celda	Presión	Incremento		Årea	Infuerzo	:3	- 11	s1	Estuerzo
Deformación	Unitaria	Carga	de poros	deporos	Deform.	Corregida	Derviedor	Electivo	Electivo	Total	Promedio
(mm)	*	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )
11.64	11.68	648	190	0.87	0.116780	19.56	3.378	1.133	4.511	5.378	2.822
11.67	11.70	648	190	0.87	0.117000	19.56	3.377	1.133	4.510	5.377	2.822
11.69	11.73	649	190	0.86	0.117281	19.57	3,381	1.136	4.517	5,981	2.826
11.72	11.75	649	190	0.86	0.117502	19.57	3,380	1.136	4,516	5,380	2.826
11.74	1178	649	190	0.86	0.117793	19.58	8 879	1 1 86	4.515	5 979	2,826
11 77	11.80	649	190	0.85	0.118003	19.58	3 378	1136	4 514	5 978	2 825
11.79	11.82	649	190	0.86	0.118224	19.59	3.377	1.136	4.513	5.377	2.825
11.81	11.84	650	190	0.86	0.118435	19.59	3 382	1 1 3 6	4 518	5 982	2 827
11.84	11.87	650	189	0.85	0.118725	19.60	3 381	1139	4.519	5 981	2.829
11.96	11.99	654	199	0.96	0.110046	10.60	2000	1 1 20	4 534	6 396	3 931
11.88	11.00	651	189	0.00	0.119157	19.61	3,363	1 1 2 9	4,528	5 384	2.631
11.00	11.64	663	199	0.00	0.110449	10.63	0.000	1 1 2 0	4.537	5 399	3,933
11.00	44.67	000	100	0.00	0.110000	10.02	2,200	1 1 4 5 5	4 6 3 4	C 060	3,030
11.30	11.37	653	100	0.00	0.119050	10.02	3,393	1.142	4,509	5,393	2.030
11.90	11.99	003	109	0.00	0.119949	13.63	3.392	1.142	4.333	5.392	2.037
11.97	12.01	654	189	0.85	0.120099	19.63	3.396	1.142	4.538	5.396	2.840
12.00	12.03	655	189	0.85	0.120510	19.65	3.400	1.142	4.542	5.400	2.842
12.02	12.05	655	189	0.86	0.120531	19.64	3.400	1.142	4.541	5.400	2.841
12.04	12.07	656	189	0.86	0.120741	19.64	3.404	1.142	4.546	5.404	2.844
12.07	12.10	656	189	0.86	0.121032	19.65	3.403	1.142	4.544	5.403	2.843
12.09	12.13	657	189	0.85	0.121253	19.66	3,407	1.144	4.552	5,407	2.848
12.12	12.15	657	189	0.86	0.121534	19.66	3.406	1.144	4.551	5.406	2.847
12.15	12.18	657	189	0.86	0.121825	19.67	3.405	1.144	4.549	5.405	2.847
12.17	12.20	658	189	0.86	0.122045	19.67	3.409	1.144	4.554	5.409	2.849
12.20	12.23	658	189	0.86	0.122326	19.68	3.408	1.144	4.553	5.408	2.848
12.22	12.25	660	188	0.85	0.122547	19.69	3.418	1.147	4.565	5.418	2.856
12.24	12.28	660	188	0.85	0.122757	19.69	3.417	1.147	4.564	5.417	2.856
12.27	12.30	660	188	0.85	0.123048	19.70	3.416	1.147	4.563	5.416	2.855
12.29	12.33	661	188	0.85	0.123269	19.70	3.420	1.147	4.567	5.420	2.857
12.31	12.35	662	188	0.85	0.123480	19.71	3.424	1.147	4.572	5.424	2.859
12.34	12.38	662	188	0.85	0.123770	19.71	3.423	1.150	4.573	5.423	2.862
12.36	12.40	663	188	0.85	0.123981	19.72	3.428	1.150	4.578	5.428	2.864
12.38	12.42	664	188	0.85	0.124202	19.72	3.432	1.150	4.582	5.432	2.866
12.41	12.45	664	188	0.85	0.124493	19.73	3.431	1.150	4.581	5.431	2.865
12.43	12.47	664	188	0.85	0.124703	19.73	3.430	1.150	4.580	5.430	2.865
12.46	12.50	665	188	0.85	0.124994	19.74	3.434	1.150	4.584	5.434	2.867
12.48	12.52	666	188	0.85	0.125215	19.75	3.438	1.153	4,591	5.438	2.872
12.51	12.54	666	188	0.85	0.125425	19.75	3.437	1.153	4,590	5.437	2.871
12.53	12.56	668	188	0.85	0.125646	19.75	3.447	1.153	4.600	5.447	2.876
12.56	12.59	668	188	0.85	0.125927	19.76	3.446	1.153	4,599	5.446	2.876
12.58	12.61	669	188	0.85	0.126148	19.77	3.450	1.153	4.603	5.450	2.878
12.60	12.64	669	188	0.85	0.126358	19.77	3.449	1.158	4,602	5.449	2 877
12.63	12.66	670	188	0.84	0.126649	19.78	3.453	1 156	4.609	5.453	2.882
13.65	12.60	670	100	0.94	0.136970	10.79	9.459	1 154	4 609	6.450	3 993
12.68	12.72	669	188	0.85	0.127161	19.79	3.446	1 153	4,599	5 446	2,876
12.71	12.74	669	188	0.84	0.127441	19.80	3 445	1 156	4,601	5.445	2,878
13.79	12.77	660	100	0.94	0.127662	19.95	2,000	1 156	4,600	5,888	3 979
12.73	13.00	660	100	0.94	0.127052	10.00	2,449	1,100	4,000	5,499	2,670
12.70	13.00	660	100	0.04	0.12/903	10.01	3,443	1,120	4 507	5,493	2.077
40.00	12.02	003	100	0.04	0.120234	10.01	3,442	1.100	4,007	5,4942	2.0/0
12.81	12.85	663	188	0.84	0.128525	19.82	3.441	1.156	4,595	5.441	2.6/6
12.84	12.88	063	187	0.84	0.128816	19.85	3.440	1.158	4,358	3.440	2.6/8
12.87	12.91	668	187	0.84	0.129096	19.83	3.433	1.158	4.592	5.433	2.875
12.90	12.94	668	187	0.84	0.129387	19.84	3.432	1.158	4.591	5.432	2.874
	Deform.	Celda	Presión	Incremento		Årea	Estuerzo	:3	11	s <b>1</b>	Estuerzo
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Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Dervision	Efectivo	Efectivo	Total	Promedio
(mm)	8	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgl/cm <sup>2</sup> )	(kg(/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(ket/cm <sup>2</sup> )
12.93	12.97	667	187	0.84	0.129678	19.85	3.426	1.158	4.584	5.426	2.871
12.95	12.99	667	187	0.84	0.129889	19.85	3.425	1.158	4,583	5.425	2.871
12.98	13.02	668	187	0.84	0.130180	19.86	3,429	1.158	4.587	5,429	2.873
13.00	13.04	668	187	0.84	0.130400	19.86	3.428	1.161	4.589	5.428	2.875
13.03	13.07	668	187	0.84	0.130681	19.87	3.427	1 158	4585	5.427	2 872
13.05	13.09	668	187	0.84	0.130902	19.87	3.426	1.158	4.585	5.426	2.871
13.08	13.12	669	187	0.84	0.131193	19.88	3.430	1.161	4,591	5,430	2.876
13.11	19.15	669	187	0.84	0.131474	19.89	3.429	1 161	4 590	5.429	2 876
13.14	13.18	669	187	0.84	0.131764	19.89	3.438	1 164	4 592	5.428	2 878
12.16	19.30	660	197	0.94	0.121095	10.00	2 4 3 7	1 161	4 500	5.433	3 975
13.19	19.29	669	187	0.84	0.132266	19.91	3,436	1 161	4 587	5.436	2.874
13.22	13.26	669	187	0.84	0.132557	19.91	3.435	1 164	4589	5.435	2 876
10.00	10.30	660	107	0.94	0.103040	10.03	2.434	1 164	4 500	E 434	3 976
13.25	10.00	600	107	0.04	0.132040	10.02	3,429	1 12.8	4.300	5,433	3.070
13.20	13.32	000	107	0.04	0.133209	10.00	3,422	1.104	1000	5.422	2.075
13.30	13.34	003	187	0.84	0.133419	19.95	3.421	1.164	4,585	5.421	2.875
13.33	13.37	000	107	0.04	0.133710	13.39	3,813	1.109	4,373	2.413	2.071
13.35	13.39	000	107	0.04	0.133931	13.34	3,414	1.104	4.370	5.414	2.6/1
13.38	13.42	668	185	0.83	0.134212	19.95	3.413	1.167	4.580	5.413	2.873
13.41	13.45	667	186	0.83	0.134503	19.96	3,407	1.167	4.574	5.407	2.870
13.43	13.47	668	188	0.83	0.134723	19.96	3.411	1.167	4.578	5.411	2.872
13.46	13.50	667	185	0.83	0.135004	19.97	3.405	1.167	4.572	5.405	2.869
13.49	13.53	667	185	0.83	0.135295	19.98	3.404	1.167	4.570	5.404	2.869
13.52	13.56	668	186	0.83	0.135586	19.98	3.408	1.167	4.574	5.408	2.871
13.55	13.59	668	186	0.83	0.135877	19.99	3,407	1.167	4.573	5.407	2.870
13.57	13.61	668	186	0.83	0.136087	19.99	3,406	1.169	4.575	5.406	2.872
13.60	13.64	667	186	0.83	0.136378	20.00	3.400	1.169	4.569	5.400	2.869
13.63	13.67	667	186	0.83	0.136669	20.01	3.398	1.169	4.568	5.398	2.869
13.65	13.69	667	186	0.83	0.136950	20.01	3.397	1.169	4.567	5.397	2.868
13.68	13.72	667	186	0.83	0.137171	20.02	3.396	1.169	4.566	5.396	2.868
13.71	13.75	668	186	0.83	0.137461	20.03	3.400	1.172	4.573	5.400	2.872
13.73	13.77	668	186	0.83	0.137742	20.08	3.399	1.172	4.572	5.399	2.872
13.76	13.80	669	186	0.83	0.137963	20.04	3.403	1.172	4.576	5.403	2.874
13.79	13.83	669	186	0.83	0.138324	20.05	3.402	1.172	4.574	5.402	2.873
13.81	13.85	670	186	0.83	0.138535	20.05	3.406	1.172	4.579	5,406	2.875
13.84	13.88	671	186	0.82	0.138826	20.06	3.410	1.175	4.585	5.410	2.880
13.86	13.90	672	185	0.83	0.139046	20.05	3.414	1.172	4.587	5.414	2.879
13.90	13.94	673	186	0.82	0.139407	20.07	3.418	1.175	4.593	5.418	2.884
13.92	13.96	673	186	0.82	0.139618	20.08	3.417	1.175	4.592	5.417	2.884
13.94	13.98	673	186	0.82	0.139839	20.08	3.416	1.175	4.591	5.416	2.883
13.97	14.01	672	186	0.82	0.140119	20.09	3.410	1.175	4.585	5.410	2.880
13.99	14.03	672	185	0.82	0.140340	20.09	3.409	1.178	4.587	5.409	2.882
14.02	14.06	672	185	0.82	0.140631	20.10	3.408	1.178	4.586	5.408	2.882
14.04	14.08	672	185	0.82	0.140842	20.10	3.407	1.178	4.585	5.407	2.881
14.07	14.11	672	185	0.82	0.141132	20.11	3.406	1.178	4.584	5.406	2.881
14.09	14.14	671	185	0.82	0.141353	20.12	3.400	1.178	4.578	5.400	2.878
14.11	14.16	671	185	0.82	0.141564	20.12	3.399	1.178	4.577	5.399	2.878
14.14	14.18	671	185	0.82	0.141784	20.13	3.399	1.181	4.579	5.399	2.880
14.16	14.20	671	185	0.82	0.141995	20.13	3.398	1.181	4.578	5.398	2.879
14.19	14.23	671	185	0.82	0.142286	20.14	3,397	1,181	4,577	5,397	2,879
14.21	14.25	671	185	0.82	0.142497	20.14	3.396	1.181	4.576	5.396	2.878
14.24	14.78	671	185	0.82	0.142787	20.15	3,995	1 181	4.575	5,995	2,878
14.26	14.30	671	185	0.82	0.143008	20.16	3.394	1.183	4.577	5.394	2.880

	Deform.	Celda	Presión	Incremento		Åren	Estuerzo	13	a'1	=1	Esfuerzo
Deformation	Unitaria	Corga	de poros	deporos	Deform.	Corregida	Dervindor	Efectivo	Efectivo	Total	Promedio
(mm)	5	N	(kPa)	(kg!/cm <sup>2</sup> )		(cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgl/cm <sup>2</sup> )	(kg)/cm*)	(kgf/cm²)	(ket/cm <sup>2</sup> )
14.29	14.33	671	185	0.82	0.143289	20.16	3.393	1.183	4.576	5.393	2.880
14.31	14.35	672	185	0.82	0.143510	20.17	3.397	1.183	4.580	5.397	2.882
14.34	14.38	671	185	0.82	0.143800	20.17	3.391	1.183	4.574	5,391	2.879
14.36	14.40	672	185	0.82	0.144011	20.18	3.395	1.183	4.578	5.395	2.881
14.38	14.42	672	185	0.81	0.144232	20.18	3.394	1.185	4,580	5.394	2.883
14.41	14.45	672	185	0.81	0.144523	20.19	3.393	1.185	4.579	5,393	2.883
14.43	14.47	672	185	0.81	0.144733	20.20	3.392	1.186	4.578	5.392	2.882
14.46	14,50	672	184	0.81	0.145024	20.20	3,391	1.189	4,580	5.391	2.884
14.48	14.52	672	185	0.81	0.145235	20.21	3.390	1.186	4.576	5.390	2.881
14.50	14.55	672	184	0.81	0.145455	20.21	3.389	1,189	4.578	5,389	2,883
14.53	14.57	672	184	0.81	0.145746	20.22	3.388	1.189	4.577	5.388	2.883
14.55	14.60	673	184	0.81	0.145957	20.22	3.392	1.189	4.581	5.392	2.885
14.57	14.62	673	184	0.81	0.146178	20.23	3.391	1.189	4,580	5,391	2.885
14.60	14,65	674	184	0.81	0.146468	20.24	3.395	1.189	4.584	5.395	2.887
14.62	14,67	674	184	0.81	0.146679	20.24	3 394	1.192	4.586	5.394	2,889
14.65	14.70	674	184	0.81	0.146970	20.25	3.393	1.192	4,585	5,393	2.888
14.67	14.72	674	184	0.81	0.147181	20.25	3.392	1.192	4.584	5,392	2.888
14.70	14.74	674	184	0.81	0.147401	20.26	3 391	1.192	4.583	5,991	2.887
14.73	14.77	675	184	0.81	0.147692	20.27	3.395	1.192	4.587	5,395	2.889
14.75	14.79	675	184	0.81	0.147903	20.27	3.394	1.195	4,589	5.394	2.892
14.78	14.82	675	184	0.81	0.148194	20.28	3 393	1.192	4.585	5,993	2,888
14.80	14.84	675	184	0.81	0.148404	20.28	3.392	1.195	4.587	5.392	2.891
14.83	14.87	674	184	0.81	0.148695	20.29	3.386	1.195	4,581	5.386	2,888
14.85	14.89	675	184	0.81	0.148916	20.29	3 390	1,195	4.585	5,390	2,890
14.88	14.92	674	184	0.81	0.149197	20.30	3.384	1.195	4.579	5.384	2.887
14.90	14.94	675	183	0.80	0.149417	20.31	3.388	1.197	4.586	5.388	2,892
14.93	14.97	675	183	0.80	0.149708	20.31	3.387	1.197	4,585	5.387	2.891
14.95	14.99	675	183	0.80	0.149919	20.32	3 386	1 197	4 584	5 386	2,891
14.98	15.02	675	183	0.80	0.150210	20.33	3.385	1.197	4.583	5.385	2,890
15.00	15.04	675	183	0.80	0.150430	20.33	3.384	1.197	4.582	5.384	2.889
15.03	15.07	675	183	0.80	0.150711	20.34	3,383	1.197	4,581	5,383	2.889
15.06	15.10	675	183	0.80	0.151002	20.34	3.382	1.197	4.579	5.382	2.888
15.08	15.12	675	183	0.80	0.151223	20.35	3 381	1 200	4 581	5 381	2 891
15.10	15.14	676	183	0.80	0.151433	20.36	3.385	1.200	4.585	5.385	2,893
15.13	15.17	676	183	0.80	0.151724	20.36	3.384	1.200	4.584	5.384	2,892
15.16	15.20	676	183	0.80	0.152015	20.37	3,383	1.200	4.583	5,383	2,892
15.18	15.23	676	183	0.80	0.152296	20.38	3.382	1.200	4.582	5.382	2.891
15.21	15.25	676	183	0.80	0.152517	20.38	3.381	1.203	4.584	5.381	2,893
15.24	15.28	677	183	0.80	0.152807	20.39	3.385	1,203	4,588	5.385	2,895
15.26	15.31	677	183	0.80	0.153088	20.39	3.384	1.200	4.584	5.384	2.892
15.28	15.32	677	183	0.80	0.153239	20.40	3,383	1,203	4,586	5,383	2,894
15.31	15.35	677	183	0.80	0.153520	20.41	3.382	1.203	4,585	5.382	2.894
15.94	15.38	678	183	0.79	0.153810	20.41	3,386	1,206	4,592	5,386	2,899
15.36	15.40	678	183	0.80	0.154031	20.42	3,385	1,203	4,588	5.385	2,895
15.38	15.42	678	183	0.79	0.154242	20.42	3.384	1.206	4.590	5.384	2.898
15.41	15.45	679	183	0.79	0.154533	20.43	3,388	1,205	4,594	5,388	2,900
15.44	15.48	679	183	0.79	0.154823	20.44	3.387	1.205	4.592	5.387	2.899
15.46	15.50	680	183	0.79	0.155034	20.44	3.391	1.206	4.597	5.391	2.901
15.49	15.53	680	182	0.79	0.155325	20.45	3,390	1,208	4,598	5,390	2,903
15.51	15.55	679	182	0.79	0.155546	20.45	3.384	1.208	4.592	5.384	2.900
15.53	15.58	680	182	0.79	0.155756	20.46	3,388	1,208	4,597	5,388	2,902
15.56	15.60	680	182	0.79	0.156047	20.47	3.387	1.208	4.595	5.387	2.902

	Deform.	Celda	Presión	incremento		Åres	Infuerro	13	s'1	=1	Esfuerzo
Deformación	Unitaria	Corgo	de poros	deporos	Deform.	Corregida	Dervindor	Efectivo	Electivo	Total	Promedio
(mm)	56	N	(kPa)	(kgt/cm <sup>2</sup> )	Vorterin	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kel/cm <sup>2</sup> )	(kgi/cm²)	(kgf/cm <sup>2</sup> )
15.59	15.63	681	182	0.79	0.156338	20.47	3.391	1.208	4.599	5.391	2.904
15.61	15.65	681	182	0.79	0.156549	20.48	3.390	1.208	4.598	5.390	2.903
15.64	15,68	681	182	0.79	0.156839	20.49	3.389	1.211	4.600	5.389	2.906
15.66	15.71	682	182	0.79	0.157050	20.49	3.393	1.211	4.604	5.393	2.908
15.68	15.73	681	182	0.79	0.157271	20.50	3.387	1.211	4.598	5.387	2.905
15.70	15.75	682	182	0.79	0.157481	20.50	3.391	1.211	4.602	5.391	2.907
15.73	15.78	682	182	0.79	0.157772	20.51	3.390	1.211	4.601	5.390	2.906
15.75	15.80	682	182	0.79	0.157993	20.51	3.389	1.211	4.600	5.389	2.906
15.78	15.83	683	182	0.79	0.158284	20.52	3.393	1.211	4.604	5.393	2.908
15.81	15.86	682	182	0.79	0.158565	20.53	3.387	1.214	4.601	5.387	2.907
15.83	15.88	683	182	0.79	0.158785	20.53	3.391	1.214	4.605	5.391	2.909
15.85	15.90	683	182	0.79	0.158996	20.54	3.390	1.214	4.604	5.390	2.909
15.88	15.93	683	182	0.79	0.159287	20.55	3.389	1.214	4.603	5.389	2.908
15.90	15.95	683	182	0.79	0.159507	20.55	3.388	1.214	4.602	5.388	2.908
15.93	15.98	683	182	0.79	0.159788	20.56	3.387	1.214	4.601	5.387	2.907
15.95	16.00	683	182	0.79	0.160009	20.56	3.386	1.214	4.600	5.386	2.907
15.98	16.03	683	182	0.79	0.160300	20.57	3.385	1.214	4.599	5.385	2.906
16.00	16.05	683	181	0.78	0.160510	20.58	3.384	1.217	4.601	5.384	2.909
16.03	16.07	683	181	0.78	0.160731	20.58	3.383	1.217	4.600	5.383	2.908
16.05	16.10	683	181	0.78	0.161012	20.59	3.382	1.217	4.599	5.382	2.908
16.08	16.12	684	181	0.78	0.161233	20.59	3.386	1.217	4.603	5.386	2.910
16.10	16.15	683	181	0.78	0.161523	20.60	3.380	1.217	4.597	5.380	2.907
16.13	16.17	684	181	0.78	0.161734	20.61	3.384	1.220	4.603	5.384	2.912
16.15	16.20	684	181	0.78	0.162025	20.61	3.383	1.220	4.602	5.383	2.911
16.18	16.22	684	181	0.78	0.162246	20.62	3.382	1.220	4.601	5.382	2.911
16.20	16.25	684	181	0.78	0.162526	20.62	3.381	1.220	4.600	5.381	2.910
16.23	16.27	684	181	0.78	0.162747	20.63	3.380	1.220	4.599	5.380	2.910
16.26	16.30	684	181	0.78	0.163038	20.64	3.379	1.220	4.598	5.379	2.909
16.28	16.32	685	181	0.78	0.163249	20.64	3.383	1.220	4.602	5.383	2.911
16.30	16.35	685	181	0.78	0.163469	20.65	3.382	1.222	4.604	5.382	2.913
16.33	16.38	685	181	0.78	0.163750	20.65	3.381	1.222	4.603	5.381	2.913
16.34	16.39	685	181	0.78	0.163901	20.66	3.380	1.222	4.602	5.380	2.912
16.37	16.42	686	181	0.77	0.164191	20.67	3.384	1.225	4.609	5.384	2.917
16.39	16.44	686	181	0.78	0.164402	20.67	3.383	1.222	4.605	5.383	2.914
16.42	16.47	687	181	0.78	0.164693	20.68	3.387	1.222	4.609	5.387	2.916
16.44	16.49	687	181	0.78	0.164904	20.68	3.386	1.222	4.608	5.386	2.915
16.47	16.52	687	181	0.77	0.165194	20.69	3.385	1.225	4.610	5.385	2.918
16.49	16.54	688	181	0.77	0.165415	20.70	3.389	1.225	4.614	5.389	2.920
16.52	16.57	688	181	0.77	0.165696	20.70	3.388	1.225	4.613	5.388	2.919
16.54	16.59	688	181	0.77	0.165917	20.71	3.387	1.225	4.612	5.387	2.919
16.57	16.62	689	181	0.77	0.166208	20.72	3.390	1.225	4.616	5.390	2.920
16.59	16.64	688	181	0.77	0.166418	20.72	3.385	1.225	4.610	5.385	2.918
16.61	16.66	689	181	0.77	0.166639	20.73	3.389	1.225	4.614	5.389	2.920
16.64	16.69	689	181	0.77	0.166920	20.73	3.387	1.225	4.613	5.387	2.919
16.67	16.72	690	180	0.77	0.167211	20.74	3.391	1.228	4.619	5.391	2.924
16.69	16.74	690	181	0.77	0.167431	20.75	3.390	1.225	4.616	5.390	2.920
16.72	16.77	690	180	0.77	0.167712	20.75	3.389	1.228	4.617	5.389	2.923
16.75	15.80	691	180	0.77	0.168003	20.75	3.393	1.228	4.621	5.393	2.924
16.77	16.82	691	180	0.77	0.168153	20.76	3.392	1.228	4.620	5.392	2.924
16.79	16.84	691	180	0.77	0.168434	20.77	3.391	1.228	4.619	5.391	2.924
16.82	16.87	691	180	0.77	0.168655	20.78	3.390	1.228	4.618	5.390	2.923
16.84	16.89	691	180	0.77	0.168946	20.78	3.389	1.231	4.620	5.389	2.925

	Deform.	Celda	Presión	incremento		Åres	Esterno	13	a'1	:1	Esfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Derviedor	Electivo	Efectivo	Total	Promedio
(mm)	<b>%</b>	N	(kPa)	(kg//cm <sup>*</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgi/cm²)	Bertlem <sup>2</sup> )
16.87	16.92	692	180	0.77	0.169156	20.79	3.393	1.231	4.624	5,393	2.927
16.89	16.94	691	180	0.77	0.169377	20.79	3.387	1,231	4.618	5.387	2.924
16.92	16.97	692	180	0.77	0.169658	20.80	3 391	1,231	4.622	5,991	2.926
16.94	16.99	692	180	0.77	0.169879	20.81	3.390	1,231	4.621	5.390	2.926
16.97	17.02	692	180	0.77	0.170169	20.81	3 389	1 231	4.620	5 389	2 925
16.99	17.04	693	180	0.77	0.170380	20.82	3,393	1,234	4.627	5.393	2,930
17.02	17.07	693	180	0.77	0.170671	20.83	3.392	1.234	4.625	5.392	2.929
17.04	17.09	694	180	0.77	0.170892	20.83	3 396	1,234	4.629	5,396	2.931
17.07	17.12	694	180	0.77	0.171172	20.84	3,395	1,234	4.628	5,395	2,931
17.09	17.14	694	180	0.77	0 171393	20.85	3 394	1 2 8 4	4.627	5 994	2 930
17.11	17.16	695	180	0.77	0 171604	20.85	3 398	1 2 3 4	4.631	5 998	2 932
17.13	17.18	694	179	0.76	0.171824	20.86	3.392	1,236	4.628	5.392	2,932
17.16	17.21	696	180	0.77	0.172115	20.86	3.401	1 234	4.634	5.401	2 934
17.18	17.23	696	179	0.76	0.172326	20.87	3.400	1,236	4,636	5,400	2,936
17.21	17.26	697	179	0.76	0.172617	20.88	3,403	1 236	4.640	5 403	2 938
17.28	17.78	697	179	0.76	0 173837	20.88	3,403	1 236	4.639	5.403	2 938
17.26	17.31	698	179	0.76	0.173118	20.89	3.406	1,236	4.643	5.406	2.939
17.28	17.33	699	179	0.76	0 173339	20.89	3,410	1.236	4.647	5.410	2 941
17.31	17.36	699	179	0.76	0.173620	20.90	3.409	1,236	4.645	5,409	2.941
17.33	17.38	699	179	0.76	0.173840	20.91	3.408	1,239	4.647	5.408	2.943
17.36	17.41	700	179	0.76	0.174131	20.91	3.412	1,239	4.651	5.412	2.945
17.38	17.43	700	179	0.76	0.174342	20.92	3.411	1,239	4.650	5.411	2.945
17.40	17.46	701	179	0.76	0.174563	20.93	3.415	1 2 3 9	4.654	5.415	2 947
17.43	17.49	701	179	0.76	0 174853	20.93	3.414	1 2 3 9	4.653	5 414	2 946
17.45	17.51	702	179	0.76	0.175064	20.94	3.418	1 242	4,660	5.418	2 951
17.48	17.53	702	179	0.76	0.175285	20.94	3.417	1 242	4.659	5.417	2 950
17.50	17.56	703	179	0.76	0175566	20.95	3,420	1 242	4.662	5.420	2 952
17.52	17.57	704	179	0.76	0.175716	20.95	3.435	1 242	4.667	5.435	2.954
17.55	17.60	704	179	0.76	0.175997	20.96	3.434	1 242	4.665	5.434	2 954
17.57	17.62	705	179	0.76	0.176217	20.97	3.427	1.242	4.669	5.427	2.956
17.60	17.65	705	179	0.76	0.176508	20.97	3.431	1 242	4.673	5.431	2 957
17.62	17.67	706	179	0.76	0.176719	20.98	3,430	1.245	4.675	5.430	2 960
17.64	17.69	708	179	0.76	0.176940	20.99	3,439	1.245	4 684	5.439	2.964
17.67	17.72	708	179	0.76	0.177231	20.99	3,438	1.245	4.683	5 438	2 964
17.69	17.74	708	179	0.76	0 177441	21.00	3.437	1.245	4.682	5.437	2 963
17.72	17.77	708	179	0.76	0 177732	21.01	3.436	1.245	4.680	5.436	2.963
17.74	17.79	708	179	0.76	0177943	21.01	3.435	1.245	4.680	5.435	2 962
17.77	17.82	709	179	0.76	0.178234	21.02	3,438	1.245	4 693	5 438	2.964
17.80	17.85	708	178	0.75	0.178524	21.08	3,432	1 248	4.680	5.432	2 964
17.83	17.88	707	178	0.75	0.178815	21.03	3.426	1 248	4.674	5.426	2 961
17.86	17.91	707	178	0.75	0.179096	21.04	3.425	1 248	4.673	5.425	2,960
17.89	17.94	706	178	0.75	0.179387	21.05	3,419	1 248	4.667	5.419	2.957
17.01	17.04	704	170	0.75	0.170609	21.05	2,010	1 349	A 200	5,840	7.20 (
17.94	17.99	706	178	0.75	0.179888	21.05	3,417	1.250	4,667	5 #17	2.357
17.96	18.01	707	178	0.75	0.180109	21.07	3,421	1250	4.671	5,421	2 961
17.99	18.04	706	178	0.75	0.180400	21.07	3,415	1.250	4,665	5,415	2 958
18.01	18.07	706	178	0.75	0.180581	21.08	3,414	1 250	4,664	5,414	2 957
18.04	18.10	706	178	0.75	0.180972	21.09	3.413	1,250	4,663	5.413	2,957
18.07	18.12	706	178	0.75	0.181192	21.09	3,412	1.250	4,662	5,412	2 956
18.10	18.16	706	178	0.75	0.181553	21.10	3,410	1 258	4,663	5,410	2 958
18.12	18.18	705	178	0.75	0 181764	21.11	3,004	1 250	4,600	5 454	2 952
18.15	18.21	706	178	0.75	0.182055	21.12	3,408	1,253	4,661	5.408	2.957

	Deform.	Celda	Presión	Incremento		Årea	Estuano	13	s'1	=1	Esfuerzo
Deformación	Unitaria	Corgo	de poros	deporos	Deform.	Corregida	Dervindor	Electivo	Efectivo	Total	Promedio
(mm)	<b>%</b>	N	(kPa)	(kgf/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgt/cm <sup>2</sup> )	(kg(/cm <sup>2</sup> )	(lat/cm <sup>2</sup> )	(kal/cm <sup>2</sup> )
18.17	18.23	706	178	0.75	0.182266	21.12	3.407	1.253	4.660	5.407	2.957
18.20	18.26	706	178	0.75	0.182556	21.13	3.406	1.253	4.659	5.406	2.956
18.23	18,28	706	178	0.74	0.182847	21.14	3.405	1.256	4.661	5.405	2,958
18.26	18.31	706	178	0.74	0.183138	21.15	3.403	1.256	4.659	5.403	2,958
18.29	18.34	705	178	0.74	0 183419	21.15	3 397	1 256	4,653	5 997	2 955
18.31	18.36	705	178	0.74	0.183640	21.16	3.397	1.256	4.652	5,397	2,954
18.34	18.39	705	178	0.74	0.183931	21.17	3.395	1.256	4.651	5.395	2,954
18.36	18.41	705	178	0.74	0.184141	21.17	3,394	1.256	4.650	5,394	2,953
18.39	18.44	705	177	0.74	0.184432	21.18	3.393	1.259	4.652	5,393	2,955
18.42	18.47	705	178	0.74	0.184723	21.19	3,392	1.256	4,648	5,992	2.952
18.45	18,50	705	178	0.74	0.185004	21.19	3.391	1.256	4.647	5,391	2,951
18.47	18.52	704	178	0.74	0.185224	21.20	3.385	1.256	4.641	5.385	2.948
18.50	18,55	705	178	0.74	0.185515	21.21	3,389	1.256	4.645	5,389	2,950
18.52	18,58	704	177	0.74	0.185796	21.21	3.383	1.259	4.641	5,383	2,950
18 55	18.60	705	177	0.74	0 186017	21.22	3 387	1 259	4.645	5 987	2 952
18.58	18.63	704	177	0.74	0.186308	21.23	3,381	1,259	4.639	5,381	2.949
18.61	18.67	706	177	0.74	0.186669	21.24	3.389	1.259	4.647	5.389	2,953
18.64	18.69	707	177	0.74	0.186950	21.24	3.392	1,259	4.651	5,992	2,955
18.67	18,72	707	177	0.74	0.187240	21.25	3.391	1.259	4.650	5,391	2,954
18.69	18,75	708	177	0.74	0.187461	21.26	3.395	1.261	4.656	5.395	2,959
18.72	18,77	707	177	0.74	0.187742	21.27	3,389	1.261	4.651	5,389	2.956
18,74	18.80	708	177	0.74	0.187963	21.27	3.393	1.261	4.654	5,393	2,958
18.76	18.82	707	177	0.74	0 188173	21.28	3 387	1 261	4.649	5 387	2 955
18.79	18.85	707	177	0.74	0.188464	21.28	3.386	1.261	4.648	5,386	2.954
18.82	18.88	708	177	0.74	0.188755	21.29	3.390	1.261	4.651	5,390	2,956
18.84	18.90	708	177	0.74	0 188955	21.30	3 389	1 261	4.650	5 389	2 956
18.87	18.93	708	177	0.74	0.189257	21.30	3,388	1.264	4.652	5,388	2.958
18.89	18.95	708	177	0.74	0 189477	21.31	3 387	1.261	4.648	5 387	2 955
18.92	18 98	709	177	0.74	0 189758	21.32	3 390	1 261	4.652	5 990	2 957
18.94	19.00	709	177	0.74	0.189979	21.32	3.389	1.264	4.654	5,389	2,959
18.97	19.03	709	177	0.74	0 190270	21.33	3 388	1 264	4.652	5 388	2 958
18.99	19.05	710	177	0.74	0.190480	21.34	3,392	1.264	4.656	5,992	2,960
19.01	19.07	709	177	0.74	0 190701	21.34	3 386	1 264	4.651	5 386	2 957
19.04	19.10	709	177	074	0 190992	21.95	3 385	1 264	4.649	5 385	2 957
19.06	19.12	709	177	0.74	0.191202	21.36	3,384	1.264	4,648	5,384	2.956
19.09	19.15	709	176	0.73	0 191493	21.36	2 282	1.267	4.650	5 989	2 959
19.11	19.17	709	176	073	0 191704	21.97	3 382	1 267	4.649	5 382	2 958
19.14	19.19	708	176	0.73	0 191924	21.38	3 376	1 267	4.643	5 976	2 955
19.16	19,21	708	176	0.73	0.192135	21.38	3.376	1.267	4.643	5,376	2.955
19.19	19.24	708	176	0.73	0.192426	21.99	3.374	1.267	4.641	5.374	2.954
19.21	19.26	707	176	0.73	0 192647	21.99	8 869	1.267	4.636	5 969	2 951
19.23	19.29	707	176	0.73	0 192857	21.40	3 368	1 267	4.635	5 968	2 951
10.35	10.21	700	170	0.72	0.102079	31.41	0.001	1 167	4 6 3 8	E 963	2 049
19.28	19.34	705	136	0.73	0.193369	21.41	3 361	1 220	4.631	5 361	2 950
19 30	19 36	706	176	0.73	0.193579	21.42	3,360	1,270	4,630	5,360	2,950
19.33	19.39	705	176	073	0 193870	21.43	2 259	1 270	4,629	5 959	2 949
19.95	19.41	706	176	078	0.194081	21.43	3 358	1 270	4,628	5 958	2 949
19.97	19.43	706	176	0.73	0.194302	21.44	3,357	1,270	4,627	5,957	2.948
19.99	19.45	706	176	0.73	0.194512	21.44	2 256	1 273	4,629	5 956	2 951
19.42	19.48	706	136	073	0 194809	21.45	336.6	1 273	4,607	5 955	2 950
19.44	19.50	706	176	0.72	0.195034	21.46	2 954	1 272	4.677	5 954	2 050
19.47	19.53	706	176	0.73	0.195315	21.47	3.353	1.273	4.625	5.353	2.949

Deformación	Deform.	Celds	Presión	incremento	Deform	Årea	Esfuerzo	s'3	a'1	a1	Esfuerzo
(mm)	Unitaria N	Cargo N	de poros (kPa)	deporos (kgt/cm²)	Unitaria	Corregida (cm²)	Desviador (kg(/cm <sup>*</sup> )	lfectivo (kgi/cm²)	Efectivo (kgt/cm <sup>2</sup> )	Total (kgf/cm²)	Promedio (kgt/cm <sup>2</sup> )
19.49	19.55	706	176	0.73	0.195525	21.47	3.352	1.273	4.624	5.352	2.949
19.52	19.57	706	176	0.73	0.195746	21.48	3.351	1.273	4.624	5.351	2.948
19.54	19.60	706	176	0.73	0.196027	21.48	3.350	1.273	4.622	5.350	2.947
19.57	19.62	706	176	0.73	0.196247	21.49	3.349	1.273	4.621	5.349	2.947
19.60	19.65	706	176	0.72	0.196538	21.50	3.348	1.275	4.623	5.348	2.949
19.62	19.67	706	176	0.72	0.196749	21.50	3.347	1.275	4.622	5.347	2.949
19.64	19.70	707	176	0.72	0.196970	21.51	3.351	1.275	4.626	5.351	2.951
19.66	19.72	708	176	0.72	0.197180	21.52	3.354	1.275	4.630	5.354	2.953
19.69	19.75	708	176	0.72	0.197471	21.52	3.353	1.275	4.629	5.353	2.952
19.71	19.77	709	176	0.72	0.197692	21.53	3.357	1.275	4.632	5.357	2.954
19.74	19.80	708	176	0.72	0.197973	21.54	3.351	1.275	4.627	5.351	2.951
19.77	19.83	709	175	0.72	0.198263	21.54	3.355	1.278	4.633	5.355	2.955
19.79	19.85	709	175	0.72	0.198484	21.55	3.354	1.278	4.632	5.354	2.955
19.81	19.87	709	175	0.72	0.198695	21.56	3.353	1.278	4.631	5.353	2.955
19.84	19.90	710	175	0.72	0.198986	21.56	3.356	1.278	4.635	5.356	2.956
19.86	19.92	710	175	0.72	0.199196	21.57	3.355	1.278	4.634	5.355	2.956
19.88	19.94	710	175	0.72	0.199417	21.58	3.355	1.278	4.633	5.355	2.955
19.91	19.97	710	175	0.72	0.199708	21.58	3.353	1.278	4.631	5.353	2.955
19.94	20.00	711	175	0.72	0.199989	21.59	3.357	1.281	4.638	5.357	2.959
19.96	20.02	711	175	0.72	0.200209	21.60	3.356	1.281	4.637	5.356	2.959
19.98	20.04	712	175	0.72	0.200420	21.60	3.360	1.281	4.641	5.360	2.961

## TRIAXIAL ESTATICO CU - OCR 1.5 INV E153

Fecha 14-mar.-2013

	Variabilidad en el co	ertabilidad en el corto y largo plazo del estado de esfuerzos en laderas							
Proyecto:	conformadas por su	elos residueles	Localización:	Caldas, Antioquia					
Sondeo	1	Muestra:	1	Profundidad:	1,5 m				
Descripción de l	a Muestra:	Limo de alta compresibilidad color rojizo con motas amarillentas y zonas negras							

.

	P	rimer Inc
Datos de la muestra		
Diámetro (cm)	4.741	
Altura (cm)	10.02	
Area (cm <sup>2</sup> )	17.65	
Volumen (cm <sup>2</sup> )	176.97	
Humedad (%)	51.06	
Peso del suelo humedo (g)	315.23	
Peso del suelo seco (g)	208.7	
Masa unitaria húmeda (g/cm <sup>3</sup> )	1.78	
Masa unitaria soca (g/cm <sup>3</sup> )	1.18	
Gravedad específica	2.74	
Relación de vacios	1.32	
Saturación (%)	105.69	1

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Etapa de saturación					
Deformación por saturación (mm)	0				
Diámetro (cm)	4.741				
Altura (cm)	10.025				
Area (cm <sup>2</sup> )	17.653				
Volumen (cm <sup>*</sup> )	176.97				
Masa unitaria seca (g/cm²)	1.18				

n	mento	
	Datos del Ensayo	
	Presión de poros inducida (kgf/cm <sup>2</sup> )	1.00
	Presión de cámara (kgf/cm <sup>2</sup> )	1.50
	Presión efectiva (kgt/cm <sup>2</sup> )	0.50
	Parámetro B	0.8
	Vel. de aplicación de carga (mm/min)	0.1

Etapa de Consolidación					
Deformación por consolidación (mm)	0.32				
Lectura inicial de la bureta (cm <sup>3</sup> )	16.30				
Lectura final de la bureta (cm <sup>8</sup> )	14.00				
Cambio volumen consolidación (cm <sup>8</sup> )	2.30				
Altura (cm)	9.99				
Volumen (cm <sup>2</sup> )	174.67				
Area (cm²)	17.48				
Masa unitaria seca (g/cm³)	1.19				

Humodad Post-falla					
Peso suelo humedo + tara (g)	411.18				
Peso suelo seco + tara (g)	305.52				
Peso tara (g)	94.89				
Humedad Post-falla (%)	50.16				
Saturación (%)	103.84				

	50	gundo li
Datos de la muestra		
Diámetro (cm)	4.812	
Altura (cm)	9.960	
Area (cm <sup>2</sup> )	18.184	
Volumen (cm <sup>3</sup> )	181.11	
Humedad (%)	49.65	
Peso del suelo humedo (g)	314.49	
Peso del suelo seco (g)	210.15	
Masa unitaria húmeda (g/cm <sup>2</sup> )	1.74	
Masa unitaria seca (g/cm²)	1.16	
Gravedad específica	2.74	
Relación de vacios	1.36	
Saturación (%)	99.93	
Etapa de saturación		

ncr	acremento							
	Datos del Ensayo							
	Presión de poros inducida (kgf/cm <sup>2</sup> )	1.0						
	Presión de cámara (kgf/cm <sup>2</sup> )	2.0						
	Presión efectiva (kgt/cm²)	1.0						
	Parámetro B	0.9						
	Vel. de aplicación de carga (mm/min)	0.1						

Etapa de Consolidación	
Deformación por consolidación (mm)	0.754
Lectura inicial de la bureta (cm <sup>3</sup> )	23.00
Lectura final de la bureta (cm <sup>8</sup> )	17.40
Cambio volumen consolidación (cm <sup>3</sup> )	5.60
Altura (cm)	9.88
Volumen (cm <sup>8</sup> )	175.51

Deformación por saturación (mm)	0
Diámetro (cm)	4.81175
Altura (cm)	9.96
Area (cm <sup>2</sup> )	18.184
Volumen (cm <sup>2</sup> )	181.11
Masa unitaria seca (g/cm <sup>3</sup> )	1.16

	T	ercer Inc
Datos de la muestra		
Diámetro (cm)	4.777	
Altura (cm)	10.03	
Area (cm <sup>2</sup> )	17.92	
Volumen (cm <sup>2</sup> )	179.73	
Humedad (%)	49.12	
Peso del suelo humedo (g)	317.46	
Peso del suelo seco (g)	212.89	
Masa unitaria húmoda (g/cm <sup>2</sup> )	1.77	
Masa unitaria seca (g/cm <sup>3</sup> )	1.18	
Gravedad específica	2.74	
Relación de vacios	1.31	
Saturación (%)	102.49	

Etapa de saturación							
Deformación por saturación (mm)	0.000						
Diámetro (cm)	4.777						
Altura (cm)	10.029						
Area (cm <sup>2</sup> )	17.92						
Volumen (cm <sup>3</sup> )	179.73						
Masa unitaria seca (g/cm <sup>3</sup> )	1.18						

Area (cm²)	17.76
Masa unitaria seca (g/cm <sup>2</sup> )	1.20

	Humedad Post-falla						
	Peso suelo humedo + tara (g)	383.35					
	Peso suelo seco + tara (g)	282.52					
	Peso tara (g)	71.30					
	Humedad Post-falla (%)	47.74					
	Saturación (%)	96.08					
10	emento						
	Datos del Ensayo						
	Presión de poros inducida (kgf/cm <sup>2</sup> )	0.0					
	Presión de cámara (kgt/cm <sup>2</sup> )	2.0					
	Presión efectiva (kg(/cm <sup>2</sup> )	2.0					
	Parámetro B	0					
	Vel, de anlicación de carea (mm/min)	0.3					

Etapa de Consolidación							
Deformación por consolidación (mm)	1.264						
Lectura inicial de la bureta (cm <sup>8</sup> )	21.00						
Lectura final de la bureta (cm <sup>8</sup> )	10.50						
Cambio volumen consolidación (cm <sup>3</sup> )	10.50						
Altura (cm)	9.90						
Volumen (cm <sup>®</sup> )	169.23						
Area (cm²)	17.09						
Masa unitaria seca (g/cm <sup>®</sup> )	1.26						

Humedad Post-falla						
Peso suelo humedo + tara (g)	391.16					
Peso suelo seco + tara (g)	292.56					
Peso tara (g)	76.62					
Humedad Post-falla (%)	45.66					
Saturación (%)	95.27					

Etapa de falla primer incremento											
Deformación (mm)	Deform. Unitaria N	Celds Cargs N	Presión de poros (kPa)	Incremento deporos (kgt/cm <sup>2</sup> )	Deform. Unitaria	Åres Corregids (cm <sup>2</sup> )	Estuerzo Desvisióor (kgt/cm²)	s'3 Efectivo (kgl/cm²)	s'1 Efectivo (kgl/cm <sup>2</sup> )	s1 Total (kgi/cm²)	Enfuerzo Promedio (kgt/cm <sup>2</sup> )
0.00	0.00	0	90	0.00	0.000000	17.48	0.000	0.500	0.500	0.500	0.500
0.02	0.02	•	89	0.00	0.000210	17.48	0.052	0.503	0.555	0.552	0.529
0.04	0.04	15	89	0.00	0.000430	17.49	0.087	0.503	0.590	0.587	0.547
0.07	0.07	22	90	0.00	0.000711	17.49	0.128	0.500	0.628	0.628	0.564
0.09	0.09	27	90	0.00	0.000931	17.50	0.157	0.497	0.655	0.657	0.576
0.11	0.11	32	90	0.00	0.001141	17.50	0.186	0.497	0.684	0.686	0.590
0.14	0.14	8	90	0.01	0.001431	17.50	0.221	0.494	0.716	0.721	0.605
0.17	0.17	42	91	0.01	0.001651	17.51	0.245	0.489	0.733	0.745	0.611
0.19	0.19	4	91	0.01	0.001861	17.51	0.268	0.486	0.754	0.768	0.620
0.21	0.21	50	91	0.02	0.002082	17.52	0.291	0.483	0.774	0.791	0.629
0.24	0.24	54	92	0.02	0.002372	17.52	0.314	0.478	0.792	0.814	0.635
0.26	0.26	58	92	0.03	0.002582	17.53	0.337	0.475	0.812	0.837	0.644

	Deloces	Calda	Presiden	Incremento		Åren	Lifeerro	a 13	- 11	11	Eduerap
Deformación	Unitaria	Cargo	de poros	deportos	Deform.	Correction	Derviedor	Efectivo	Efectivo	Total	Promedio
(mm)	5	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
0.29	0.29	62	93	0.03	0.002872	17.53	0.361	0.469	0.830	0.861	0.650
0.31	0.31	65	93	0.03	0.003082	17.53	0.378	0.467	0.844	0.878	0.656
0.34	0.34	68	93	0.04	0.003372	17.54	0.395	0.464	0.859	0.895	0.661
0.36	0.36	71	94	0.04	0.003593	17.54	0.413	0.458	0.871	0.913	0.664
0.39	0.39	75	94	0.04	0.003873	17.55	0.436	0.455	0.891	0.936	0.673
0.42	0.42	77	94	0.05	0.004163	17.55	0.447	0.453	0.900	0.947	0.676
0.44	0.44	80	95	0.05	0.004383	17.56	0.464	0.447	0.912	0.964	0.679
0.46	0.46	83	96	0.06	0.004593	17.56	0.482	0.441	0.923	0.982	0.682
0.49	0.49	86	96	0.06	0.004884	17.57	0.499	0.439	0.938	0.999	0.688
0.51	0.51	88	96	0.06	0.005104	17.57	0.511	0.436	0.946	1.011	0.691
0.54	0.54	91	96	0.07	0.005384	17.57	0.528	0.433	0.961	1.028	0.697
0.56	0.56	93	97	0.07	0.005604	17.58	0.539	0.428	0.967	1.039	0.697
0.59	0.59	95	97	0.07	0.005894	17.58	0.551	0.428	0.978	1.051	0.703
0.61	0.61	98	98	0.08	0.006104	17.59	0.568	0.422	0.990	1.068	0.706
0.64	0.64	100	98	0.08	0.006395	17.59	0.579	0.419	0.999	1.079	0.709
0.67	0.67	102	98	0.08	0.006685	17.60	0.591	0.416	1.007	1.091	0.712
0.69	0.69	104	98	0.09	0.006895	17.60	0.602	0.414	1.016	1.102	0.715
0.71	0.71	106	99	0.09	0.007115	17.61	0.614	0.408	1.022	1.114	0.715
0.74	0.74	109	99	0.09	0.007395	17.61	0.631	0.405	1.036	1.131	0.721
0.76	0.76	110	99	0.10	0.007616	17.61	0.637	0.402	1.039	1.137	0.721
0.78	0.78	112	100	0.10	0.007826	17.62	0.648	0.400	1.048	1.148	0.724
0.81	0.81	115	100	0.10	0.008116	17.62	0.665	0.397	1.062	1.165	0.729
0.83	0.83	116	100	0.11	0.008336	17.63	0.671	0.394	1.065	1.171	0.730
0.86	0.86	118	101	0.11	0.008616	17.63	0.682	0.391	1.074	1.182	0.732
0.88	0.88	120	101	0.11	0.008836	17.64	0.694	0.389	1.082	1.194	0.735
0.91	0.91	122	101	0.11	0.009127	17.64	0.705	0.386	1.091	1.205	0.738
0.93	0.93	124	101	0.12	0.009837	17.64	0.716	0.383	1.099	1.216	0.741
0.96	0.96	125	101	0.12	0.009627	17.65	0.722	0.383	1.105	1.222	0.744
0.98	0.98	127	102	0.12	0.009847	17.65	0.733	0.377	1.111	1.233	0.744
1.01	1.01	128	102	0.12	0.010127	17.66	0.739	0.377	1.116	1.239	0.747
1.03	1.03	130	102	0.13	0.010348	17.66	0.750	0.375	1.125	1.250	0.750
1.06	1.06	131	102	0.13	0.010638	17.67	0.756	0.375	1.130	1.256	0.753
1.08	1.08	133	103	0.13	0.010848	17.67	0.767	0.372	1.139	1.267	0.755
1.11	1.11	135	103	0.13	0.011068	17.68	0.779	0.369	1.148	1.279	0.758
1.13	1.13	136	103	0.13	0.011348	17.68	0.784	0.366	1.150	1.284	0.758
1.16	1.16	137	103	0.13	0.011639	17.69	0.790	0.366	1.156	1.290	0.761
1.19	1.19	138	103	0.14	0.011859	17.69	0.795	0.363	1.159	1.295	0.761
1.21	1.21	139	104	0.14	0.012139	17.69	0.801	0.361	1.161	1.301	0.761
1.24	1.24	141	104	0.14	0.012359	17.70	0.812	0.361	1.173	1.312	0.767
1.26	1.26	141	104	0.14	0.012649	17.70	0.812	0.358	1.170	1.312	0.764
1.29	1.29	143	104	0.14	0.012929	17.71	0.823	0.358	1.181	1.323	0.769
1.31	1.31	144	104	0.14	0.013150	17.71	0.829	0.355	1.184	1.329	0.769
1.34	1.34	145	105	0.15	0.013440	17.72	0.834	0.352	1.187	1.334	0.769
1.36	1.37	146	105	0.15	0.013650	17.72	0.840	0.352	1.192	1.340	0.772
1.39	1.39	148	105	0.15	0.013940	17.73	0.851	0.352	1.203	1.351	0.778
1.42	1.42	149	105	0.15	0.014160	17.73	0.857	0.350	1.206	1.357	0.778
1.44	1.44	150	105	0.15	0.014441	17.74	0.862	0.347	1.209	1.362	0.778
1.47	1.47	151	105	0.15	0.014661	17.74	0.868	0.347	1.214	1.368	0.781
1.49	1.49	153	105	0.15	0.014871	17.74	0.879	0.347	1.226	1.379	0.786
1.52	1.52	154	105	0.16	0.015161	17.75	0.884	0.344	1.228	1.384	0.786
1.54	1.54	155	105	0.16	0.015381	17.75	0.890	0.344	1.234	1.390	0.789
1.56	1.56	156	105	0.16	0.015591	17.76	0.896	0.344	1.239	1.396	0.792

ľ		Deform	Calda	Presiden	Incremento		Åren	Entremo	13	a'1	=1	Eduerap
	Deformación	Unitaria	Cares	de poros	deportos	Deform.	Correction	Dervindor	Electivo	Electivo	Total	Promedio
	(mm)	56	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
ľ	1.59	1.59	157	105	0.16	0.015882	17.76	0.901	0.344	1.245	1.401	0.794
ŀ	1.61	1.61	158	105	0.16	0.016102	17.77	0.907	0.341	1.248	1.407	0.794
ŀ	1.64	1.64	158	105	0.16	0.016382	17.77	0.906	0.338	1.245	1.405	0.792
ŀ	1.66	1.66	160	106	0.16	0.016602	17.77	0.918	0.338	1.256	1.418	0,797
ŀ	1.68	1.68	160	105	0.16	0.016812	17.78	0.917	0.338	1.256	1.417	0.797
ŀ	171	1.71	160	105	0.16	0.017103	17.78	0.917	0.338	1.255	1 417	0.797
ŀ	1.74	1.74	161	106	0.16	0.017393	17.79	0.923	0.338	1.261	1.423	0.800
ŀ	1.75	1.76	162	105	0.16	0.017603	17.79	0.938	0.936	1.264	1.428	0.800
ŀ	178	1.78	163	105	0.16	0.017823	17.80	0.934	0.336	1.269	1.434	0.802
ŀ	1.01	1.01	10.0	100	0.10	0.019113	17.00	0.020	0.000	1.075	1,420	0.905
ŀ	1.01	1.01	1.05	106	0.16	0.018232	17.00	0.035	0.339	1 390	1.445	0.005
ŀ	1.85	1.85	165	105	0.10	0.018544	17.81	0.944	0.335	1.277	1 444	0.805
ŀ	1.00	1.00	100	400	0.17	0.010014	47.05	0.014	0.333	1 303	1.850	0.000
ŀ	1.00	1.00	167	105	0.17	0.016114	17.02	0.055	0.333	1.202	1.450	0.910
ŀ	1.91	1.91	107	100	0.17	0.019114	17.06	0.355	0.333	1.200	1.400	0.010
ŀ	1.93	1.93	167	105	0.17	0.019334	17.82	0.955	0.333	1.288	1.455	0.810
ŀ	1.95	1.95	168	107	0.17	0.019544	17.83	0.961	0.330	1.291	1.461	0.810
ŀ	1.98	1.98	168	107	0.17	0.019835	17.83	0.960	0.330	1.290	1.460	0.810
ŀ	2.00	2.01	170	107	0.17	0.020055	17.84	0.972	0.330	1.301	1.472	0.816
ŀ	2.03	2.03	170	107	0.17	0.020335	17.84	0.971	0.330	1.301	14/1	0.816
ŀ	2.06	2.06	1/1	107	0.17	0.020625	17.85	0.977	0.330	1.307	1.477	0.818
Ļ	2.08	2.08	171	107	0.17	0.020845	17.85	0.976	0.327	1.304	1.476	0.815
Ļ	2.10	2.11	172	107	0.17	0.021055	17.85	0.982	0.327	1.309	1.482	0.818
Ļ	2.13	2.13	173	107	0.17	0.021346	17.86	0.987	0.327	1.315	1.487	0.821
L	2.15	2.16	174	107	0.17	0.021556	17.86	0.993	0.327	1.320	1.493	0.824
L	2.18	2.18	174	107	0.17	0.021846	17.87	0.993	0.327	1.320	1.493	0.823
L	2.21	2.21	175	107	0.17	0.022066	17.87	0.998	0.327	1.325	1.498	0.826
L	2.23	2.23	175	107	0.17	0.022276	17.88	0.998	0.327	1.325	1.498	0.826
L	2.26	2.26	176	107	0.17	0.022567	17.88	1.003	0.327	1.330	1.503	0.829
L	2.28	2.28	176	107	0.17	0.022787	17.89	1.003	0.327	1.330	1.503	0.829
L	2.31	2.31	177	107	0.17	0.023067	17.89	1.008	0.327	1.336	1.508	0.831
	2.33	2.33	178	107	0.17	0.023287	17.90	1.014	0.327	1.341	1.514	0.834
ſ	2.36	2.36	178	107	0.17	0.023577	17.90	1.014	0.327	1.341	1.514	0.834
L	2.38	2.38	178	107	0.17	0.023787	17.91	1.013	0.327	1.341	1.513	0.834
ſ	2.41	2.41	179	107	0.17	0.024078	17.91	1.019	0.327	1.346	1.519	0.837
ſ	2.43	2.43	179	107	0.17	0.024288	17.91	1.019	0.327	1.346	1.519	0.836
ſ	2.46	2.46	180	107	0.17	0.024578	17.92	1.024	0.327	1.351	1.524	0.839
ſ	2.48	2.48	180	107	0.17	0.024798	17.92	1.024	0.327	1.351	1.524	0.839
ľ	2.51	2.51	181	107	0.17	0.025078	17.93	1.029	0.327	1.356	1.529	0.842
ſ	2.53	2.53	181	107	0.17	0.025299	17.93	1.029	0.327	1.356	1.529	0.842
ľ	2.55	2.55	182	107	0.17	0.025509	17.94	1.034	0.327	1.362	1.534	0.844
ľ	2.58	2.58	182	107	0.17	0.025799	17.94	1.034	0.327	1.361	1.534	0.844
ľ	2.61	2.61	183	107	0.17	0.026089	17.95	1.039	0.327	1.367	1.539	0.847
ŀ	2.64	2.64	183	107	0.17	0.026379	17.95	1,039	0.327	1,366	1,539	0.847
t	2.66	2.66	184	107	0.17	0.026589	17.96	1.044	0.327	1.372	1.544	0.849
ŀ	2.69	2.69	185	107	0.17	0.026880	17.96	1.050	0.327	1.377	1.550	0.852
ŀ	2.71	2.71	186	107	0.17	0.027090	17.97	1.055	0.327	1 383	1.555	0.855
ŀ	2,73	2.73	187	107	0.17	0.027310	17.97	1.061	0.327	1.388	1.561	0.858
ŀ	2,75	2.75	189	107	0.17	0.027530	17.97	1.072	0.327	1,399	1.572	0,863
ŀ	2.78	2.78	190	107	0.17	0.027810	17.98	1077	0.327	1.404	1 577	0.866
ŀ	2,80	2,80	192	107	0.17	0.028031	17.98	1.088	0.327	1.416	1,588	0.871
ŀ	3.99	3.99	182	107	0.17	0.038235	17.00	1.084	0.997	1.434	1 584	0.974
ŀ	2.85	2.85	194	107	0.17	0.028531	17.99	1 099	0 327	1426	1 599	0.877
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	Deform.	Celda	Presiden	Incremento		Åree	Estuerro	13	a'1	- 11	Erfuerzo
Deformación	Uniteria	Cargo	de poros	deportos	Deform.	Correction	Dervindor	Efectivo	Electivo	Total	Promedio
(mm)	56	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
2.88	2.88	195	107	0.17	0.028821	18.00	1.104	0.330	1.434	1.604	0.882
2.90	2.90	196	107	0.17	0.029031	18.00	1.110	0.330	1,440	1.610	0.885
2.92	2.93	197	107	0.17	0.029251	18.01	1.115	0.330	1.445	1.615	0.888
2.95	2.95	197	107	0.17	0.029542	18.01	1 1 1 5	0.330	1.445	1.615	0.887
2.67	2.02	162	107	0.17	0.009750	19.00	1.130	0.330	1.450	1.630	0.990
3.00	3.00	199	107	0.17	0.030042	18.02	1 1 26	0.330	1.456	1.636	0.893
3.03	3.03	200	107	0.17	0.030332	18.03	1131	0.330	1.461	1.631	0.895
2.05	20.00	300	107	0.17	0.020540	19.00	1 1 2 1	0.990	1.461	1 631	0.905
3.03	3,05	200	107	0.17	0.000092	19.04	1.134	0.330	1 466	1 696	0.000
3.00	3,00	2001	400	0.17	0.000000	10.04	1.130	0.000	1.400	1.030	0.000
3.10	3.11	202	105	0.17	0.021222	10.05	1.191	0.333	1.474	1.091	0.903
3.13	3.13	2002	100	0.17	0.0012233	10.00	1.1.91	0.333	1.474	1.041	0.000
3.13	3.10	2002	100	0.17	0.031353	10.00	1.191	0.333	1.474	1.091	0.903
3.18	3.18	203	106	0.17	0.031843	18.05	1.146	0.333	1.4/9	1.646	0.905
3.20	3.21	204	105	0.17	0.032054	10.00	1.152	0.333	1.404	1.652	0.909
3.23	3.23	204	105	0.17	0.032344	18.05	1.151	0.333	1.484	1.651	0.908
3.26	3.25	204	105	0.17	0.032634	18.07	1.151	0.333	1.484	1.651	0.908
3.28	3.28	204	105	0.17	0.032844	18.07	1.151	0.333	1.483	1.651	0.908
3.31	3.31	205	106	0.17	0.033134	18.08	1.156	0.333	1.489	1.656	0.911
3.33	3.33	205	106	0.16	0.033344	18.08	1.156	0.336	1.491	1.656	0.913
3.58	3.38	206	105	0.16	0.033635	18.09	1.161	0.335	1,495	1.661	0.916
3.39	3.39	206	106	0.16	0.033925	18.09	1.161	0.336	1.496	1.661	0.916
3.41	3.41	207	105	0.16	0.034135	18.10	1.166	0.336	1.502	1.666	0.919
3.44	3.44	207	105	0.16	0.034425	18.10	1.166	0.336	1.501	1.666	0.918
3.46	3.46	207	105	0.16	0.034645	18.11	1.165	0.338	1.504	1.665	0.921
3.49	3.49	208	105	0.16	0.034926	18.11	1.171	0.338	1.509	1671	0.924
3.51	3.51	208	106	0.16	0.035146	18.12	1.170	0.338	1.509	1.670	0.924
3.54	3.54	208	106	0.16	0.035436	18.12	1.170	0.338	1.508	1.670	0.923
3.56	3.56	208	105	0.16	0.035646	18.13	1.170	0.338	1.508	1.670	0.923
3.59	3.59	208	105	0.16	0.035936	18.13	1.169	0.338	1.508	1.669	0.923
3.62	3.62	208	105	0.16	0.036227	18.14	1.169	0.338	1.507	1.669	0.923
3.64	3.64	208	106	0.16	0.036437	18.14	1.169	0.341	1.510	1.669	0.926
3.67	3.67	208	106	0.16	0.036727	18.15	1.168	0.341	1.510	1.668	0.925
3.70	3.70	208	106	0.16	0.037017	18.15	1.168	0.341	1.509	1.668	0.925
3.72	3.72	208	105	0.16	0.037227	18.15	1.168	0.341	1.509	1.658	0.925
3.74	3.74	208	105	0.16	0.037447	18.15	1.168	0.341	1.509	1.668	0.925
3.77	3.77	207	105	0.16	0.037738	18.17	1.162	0.341	1.503	1.662	0.922
3.80	3.80	207	105	0.16	0.038018	18.17	1.161	0.344	1.505	1.661	0.925
3.82	3.82	207	105	0.16	0.038238	18.17	1.161	0.344	1.505	1.661	0.924
3.85	3.85	207	105	0.16	0.038528	18.18	1.161	0.344	1.505	1.661	0.924
3.87	3.87	207	105	0.16	0.038738	18.18	1.160	0.344	1.504	1.660	0.924
3.90	3.90	207	105	0.15	0.039029	18.19	1.160	0.347	1 507	1.660	0.927
3.93	3.93	206	105	0.15	0.039319	18.20	1.154	0.347	1.501	1.654	0.924
3.95	2.95	205	105	0.15	0.089529	18.20	1.154	0.947	1 501	1.654	0.924
3.97	3.97	206	105	0.15	0.039749	18 20	1154	0.947	1 500	1,654	0.924
4.00	4.00	200	105	0.15	0.040039	19.31	1 159	0.947	1,500	1 653	0.924
4.00	4.00	200	100	0.15	0.0400230	10.31	1.147	0.047	1.404	1.647	0.000
4,003	4.03	200	105	0.15	0.040520	10.21	1.197	0.347	1.494	1.097	0.320
4,00	4.00	200	100	8.15	0.040910	18.32	1.147	0.347	1,404	1,647	0.020
****** # ***	4,40	2,00	400	0.10	0.041042	40.22	4.444	0.000	1,400	4.090	0.022
4.10	4.10	205	105	0.15	0.041040	18.23	1.146	0.350	1,495	1,646	0.923
4.13	4.13	2005	105	0.15	0.041330	16.23	1.146	0.350	1.495	1.040	0.323
4.18	4.16	205	105	0.15	0.041511	18.24	1.146	0.350	1.495	1.646	0.922
4.18	4.18	205	105	0.15	0.041831	18.24	1.145	0.350	1.495	1.645	0.922

Deformación (nm)         Unitaria N         Carga (kPa)         de poros (kgt/cm <sup>2</sup> )         Deform. (am <sup>2</sup> )         Corregida (kgt/cm <sup>2</sup> )         Descritor (kgt/cm <sup>2</sup> )         Efectivo (kgt/cm <sup>2</sup> )         Efectivo (kgt/cm <sup>2</sup> )         Efectivo (kgt/cm <sup>2</sup> )         Descritor (kgt/cm <sup>2</sup> )         Prome (kgt/cm <sup>2</sup> )           4.20         4.21         205         105         0.15         0.042051         18.25         1.145         0.352         1.498         1.645         0.92           4.23         4.23         204         105         0.15         0.042031         18.25         1.139         0.352         1.492         1.639         0.92           4.26         4.26         204         105         0.15         0.042621         18.25         1.139         0.352         1.491         1.639         0.92           4.28         4.28         204         105         0.15         0.042621         18.25         1.139         0.352         1.491         1.639         0.92           4.30         4.31         204         105         0.15         0.043052         18.27         1.138         0.355         1.491         1.638         0.92           4.33         4.33         204         104         0.14         0.043552
(mm)         N         (kPa)         (kgt/cm <sup>2</sup> )         Unitaria         (cm <sup>2</sup> )         (kgt/cm <sup>2</sup> )
4.20         4.21         205         105         0.15         0.042051         18.25         1.145         0.352         1.498         1.645         0.92           4.23         4.23         204         105         0.15         0.042331         18.25         1.139         0.352         1.498         1.645         0.92           4.23         4.23         204         105         0.15         0.042331         18.25         1.139         0.352         1.492         1.639         0.92           4.26         4.26         204         105         0.15         0.042621         18.26         1.139         0.352         1.491         1.639         0.92           4.28         4.28         204         105         0.15         0.042621         18.26         1.139         0.352         1.491         1.639         0.92           4.30         4.31         204         105         0.15         0.043052         18.27         1.138         0.352         1.491         1.638         0.92           4.33         4.33         204         104         0.14         0.043342         18.27         1.138         0.355         1.493         1.638         0.92
4.23         4.23         204         105         0.15         0.042331         18.25         1.139         0.352         1.492         1.639         0.92           4.26         4.26         204         105         0.15         0.042621         18.26         1.139         0.352         1.491         1.639         0.92           4.26         4.26         204         105         0.15         0.042621         18.26         1.139         0.352         1.491         1.639         0.92           4.28         4.28         204         105         0.15         0.042841         18.26         1.139         0.352         1.491         1.639         0.92           4.30         4.31         204         105         0.15         0.043052         18.27         1.138         0.352         1.491         1.638         0.92           4.33         4.33         204         104         0.14         0.043342         18.27         1.138         0.355         1.493         1.638         0.92           4.35         4.36         204         104         0.14         0.043552         18.28         1.138         0.355         1.493         1.638         0.92
4.26         4.26         204         105         0.15         0.042621         18.26         1.139         0.352         1.491         1.639         0.92           4.28         4.28         204         105         0.15         0.042621         18.26         1.139         0.352         1.491         1.639         0.92           4.28         4.28         204         105         0.15         0.042841         18.26         1.139         0.352         1.491         1.639         0.92           4.30         4.31         204         105         0.15         0.043052         18.27         1.138         0.352         1.491         1.638         0.92           4.33         4.33         204         104         0.14         0.043342         18.27         1.138         0.355         1.493         1.638         0.92           4.35         4.36         204         104         0.14         0.043552         18.28         1.138         0.355         1.493         1.638         0.92           4.38         4.38         204         104         0.14         0.043842         18.28         1.138         0.355         1.493         1.638         0.92
4.28         4.28         204         105         0.15         0.042841         18.26         1.139         0.352         1.491         1.639         0.92           4.30         4.31         204         105         0.15         0.042841         18.26         1.139         0.352         1.491         1.639         0.92           4.30         4.31         204         105         0.15         0.043052         18.27         1.138         0.352         1.491         1.638         0.92           4.33         4.33         204         104         0.14         0.043052         18.27         1.138         0.355         1.493         1.638         0.92           4.35         4.36         204         104         0.14         0.043352         18.28         1.138         0.355         1.493         1.638         0.92           4.35         4.36         204         104         0.14         0.043552         18.28         1.138         0.355         1.493         1.638         0.92           4.38         4.38         204         104         0.14         0.043842         18.28         1.138         0.355         1.493         1.638         0.92
4.30         4.31         204         105         0.15         0.043052         18.27         1.138         0.352         1.491         1.638         0.92           4.33         4.33         204         104         0.14         0.043342         18.27         1.138         0.355         1.491         1.638         0.92           4.33         4.33         204         104         0.14         0.043342         18.27         1.138         0.355         1.493         1.638         0.92           4.35         4.36         204         104         0.14         0.043552         18.28         1.138         0.355         1.493         1.638         0.92           4.38         4.38         204         104         0.14         0.043842         18.28         1.138         0.355         1.493         1.638         0.92           4.40         4.41         204         104         0.14         0.044062         18.29         1.137         0.355         1.492         1.637         0.92           4.40         4.41         204         104         0.14         0.044062         18.29         1.137         0.355         1.492         1.637         0.92
4.33         4.33         2.04         104         0.14         0.043342         18.27         1.138         0.355         1.493         1.638         0.92           4.35         4.36         204         104         0.14         0.043342         18.27         1.138         0.355         1.493         1.638         0.92           4.35         4.36         204         104         0.14         0.043552         18.28         1.138         0.355         1.493         1.638         0.92           4.38         4.38         204         104         0.14         0.043842         18.28         1.138         0.355         1.493         1.638         0.92           4.40         4.41         204         104         0.14         0.044362         18.29         1.137         0.355         1.492         1.637         0.92           4.40         4.41         204         104         0.14         0.044062         18.29         1.137         0.355         1.492         1.637         0.92
4.35         4.36         204         104         0.14         0.043552         18.28         1.138         0.355         1.493         1.638         0.92           4.38         4.38         204         104         0.14         0.043552         18.28         1.138         0.355         1.493         1.638         0.92           4.38         4.38         204         104         0.14         0.043842         18.28         1.138         0.355         1.493         1.638         0.92           4.40         4.41         204         104         0.14         0.044862         18.29         1.137         0.355         1.492         1.637         0.92           4.40         4.41         204         104         0.14         0.044962         18.29         1.137         0.355         1.492         1.637         0.92
4.38         4.38         204         104         0.14         0.043842         18.28         1.138         0.355         1.493         1.638         0.92           4.40         4.41         204         104         0.14         0.044862         18.29         1.137         0.355         1.493         1.638         0.92           4.40         4.41         204         104         0.14         0.044062         18.29         1.137         0.355         1.492         1.637         0.92           4.40         4.41         204         104         0.14         0.044062         18.29         1.137         0.355         1.492         1.637         0.92
4.40 4.41 204 104 0.14 0.044062 18.29 1.137 0.355 1.492 1.637 0.92
I AAS I AAS I 204 I 104 I 014 I 0044545 I 1879 I 1157 I 0355 I 1497 I 1637 I 037
445 446 204 104 0.14 0.044563 1830 1.137 0.358 1.495 1.637 0.92
4.48 4.49 203 104 0.14 0.044853 18.30 1.131 0.358 1.489 1.631 0.92
450 451 202 104 0.14 0.045063 1830 1.125 0.358 1.483 1.625 0.92
453 454 202 104 0.14 0.045353 1831 1.125 0.358 1.482 1.625 0.92
455 456 202 104 0.14 0.045563 1831 1.124 0.358 1.482 1.624 0.92
458 458 202 104 0.14 0.045784 1832 1.124 0.358 1.482 1.624 0.92
4.60 4.61 203 104 0.14 0.046074 18.32 1.129 0.358 1.487 1.629 0.92
4.63 4.63 203 104 0.14 0.045284 18.33 1.129 0.358 1.487 1.629 0.92
4.65 4.65 204 104 0.14 0.046504 18.33 1.134 0.361 1.495 1.634 0.92
4.68 4.68 204 104 0.14 0.046794 18.34 1.134 0.361 1.495 1.634 0.92
470 470 204 104 0.14 0.047004 1834 1.134 0.361 1.494 1.634 0.92
473 473 205 104 0.14 0.04795 1835 1139 0.361 1.500 1.639 0.93
475 475 305 104 0.14 0.047275 10.35 1.144 0.051 1.505 1.544 0.05
477 477 205 103 0.14 0.04735 1835 1.144 0.361 1.507 1.544 0.93
479 479 207 103 0.14 0.047945 1836 1.149 0.363 1.513 1.549 0.93
4.82 4.82 207 103 0.14 0.048235 18.37 1.149 0.953 1.512 1.549 0.93
4.84 4.84 208 103 0.14 0.048445 18.37 1.154 0.363 1.518 1.654 0.94
496 497 208 109 0.14 0.049656 19.27 1.150 0.962 1.522 1.650 0.94
4.89 4.89 209 103 0.14 0.048045 18.38 1.150 0.363 1.523 1.559 0.94
4 91 4 92 210 103 0.14 0.049165 18.38 1.155 0.363 1.528 1.654 0.94
493 494 210 103 0.14 0.049375 1839 1.154 0.953 1.528 1.554 0.94
495 497 211 103 0.13 0.049565 18.99 1.159 0.955 1.535 1.559 0.95
4.99 4.99 311 102 0.13 0.04977 19.40 11.50 0.355 1.555 1.555 0.55
5 01 5 02 211 103 0.13 0.050167 18.40 1.159 0.366 1.535 1.569 0.95
5.04 5.04 212 108 0.13 0.050867 18.41 1.174 0.366 1.540 1.674 0.95
5.06 5.07 313 109 0.13 0.050667 19.41 1.174 0.366 1.540 1.674 0.35
5.09 5.09 213 103 0.13 0.050887 18.42 1.179 0.369 1.548 1.679 0.95
511 511 312 102 013 005007 1042 1175 0305 1540 1075 035 511 511 312 109 013 0051107 1942 1170 0368 1548 1679 035
514 514 213 103 013 005138 1843 1178 0369 1547 1678 095
516 516 214 103 0.13 0.051608 18.43 1.184 0.369 1.553 1.684 0.96
5.10 5.10 214 200 0.10 0.051000 10.40 0.100 1.100 0.000 1.000 0.000
5 21 5 21 215 103 0.13 0.052108 18.44 1.188 0.369 1.557 1.688 0.96
511 511 115 105 015 005100 100 1100 1155 1155 1555 1566 050
5.25 5.25 216 100 0.13 0.05226 10.45 1.154 0.365 1.565 1.654 0.36 5.26 5.26 316 109 0.13 0.052560 19.45 1.162 0.073 1.565 1.663 0.06
5 29 5 29 217 108 0.13 0.053899 18.45 1.199 0.372 1.500 1.033 0.36
5 21 5 21 218 108 0.13 0.052110 19.46 1.205 0.072 1.070 1.005 0.07
5 34 5 34 219 103 0.13 0.053399 18.47 1.209 0.372 1.581 1.209 0.07
5 36 5 36 219 103 0.13 0.053619 18.47 1.209 0.372 1.580 1.209 0.97
5 38 5 38 200 108 0.13 0.053830 10.47 1.014 0.070 1.000 1.714 0.07
541 541 230 102 0.13 0.054130 18.48 1.214 0.372 1.500 1.714 0.37
543 543 230 100 013 000420 1040 1010 1010 1040 1040 1040 10
5.46 5.46 221 102 0.13 0.054630 18.49 1.218 0.375 1.593 1.718 0.98

	Deform.	Celda	Presión	Incremento		Åres	Lafuerco -	13	11	=1	Erfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Dervision	Efectivo	Electivo	Total	Promedio
(mm)	26	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
5,49	5.49	221	102	0.13	0.054910	18.50	1.218	0.375	1.593	1.718	0.984
5.51	5.51	222	102	0.13	0.055130	18.50	1.223	0.375	1.598	1.723	0.986
5.54	5.54	222	102	0.13	0.055421	18.51	1.223	0.375	1.597	1,723	0.986
5.56	5.56	223	102	0.12	0.055631	18.51	1.228	0.377	1.605	1.728	0.991
5,59	5,59	223	102	0.13	0.055921	18.52	1.228	0.375	1.602	1.728	0.988
5.61	5.61	223	102	0.13	0.056131	18.52	1.227	0.375	1.602	1.727	0.988
5.64	5.64	224	102	0.12	0.056421	18.53	1.233	0.377	1.610	1.733	0.994
5.66	5.66	224	102	0.12	0.056642	18.53	1.232	0.377	1.610	1,732	0.994
5.69	5.69	225	102	0.12	0.056922	18.53	1.237	0.377	1.615	1.737	0.995
5.72	5.72	225	102	0.12	0.057212	18.54	1.237	0.377	1.614	1.737	0.996
5.70	5.70	225	102	0.13	0.057002	18.54	1.237	0.375	1.612	1.737	0.993
5.78	5.78	226	102	0.12	0.057792	18.55	1.242	0.380	1.622	1.742	1.001
5.80	5,80	225	102	0.12	0.058003	18.56	1.236	0.377	1.613	1,736	0.995
5.83	5.83	225	102	0.12	0.058293	18.56	1.236	0.380	1.616	1,736	0.998
5.85	5.85	225	102	0.12	0.058503	18.57	1.235	0.380	1.616	1,735	0.998
5.88	5.88	226	102	0.12	0.058793	18.57	1.240	0.380	1.621	1.740	1.000
5.90	5.90	226	101	0.12	0.059013	18.58	1.240	0.383	1.623	1.740	1.003
5.93	5.93	226	101	0.12	0.059293	18.58	1.240	0.383	1.623	1,740	1.003
5.95	5.95	226	102	0.12	0.059514	18.59	1.240	0.380	1.620	1.740	1.000
5.98	5.98	226	101	0.12	0.059804	18.59	1.239	0.383	1.622	1.739	1.003
6.00	6.00	226	101	0.12	0.060014	18.60	1.239	0.383	1.622	1,739	1.002
6.03	6.03	226	101	0.12	0.060304	18.60	1.238	0.383	1.621	1,738	1.002
6.00	6.00	226	102	0.12	0.060014	18.60	1.239	0.380	1.619	1,739	1.000
6.08	6.08	226	101	0.12	0.060805	18.61	1.238	0.383	1.621	1.738	1.002
6.11	6.11	226	101	0.12	0.061095	18.62	1.237	0.383	1.620	1.737	1.002
6.13	6.13	226	101	0.11	0.061315	18.62	1.237	0.386	1.623	1,737	1.004
6.16	6.16	226	101	0.11	0.061595	18.63	1.237	0.386	1.623	1,737	1.004
6.18	6.19	226	101	0.11	0.061885	18.63	1.236	0.386	1.622	1,736	1.004
6.21	6.21	226	101	0.11	0.062106	18.64	1.236	0.386	1.622	1,736	1.004
6.23	6.24	226	101	0.11	0.062386	18.64	1.236	0.386	1.621	1.736	1.004
6.26	6.26	226	101	0.11	0.062606	18.65	1.235	0.386	1.621	1,735	1.003
6.29	6.29	226	101	0.11	0.062896	18.65	1.235	0.386	1.621	1,735	1.003
6.31	6.32	226	101	0.11	0.063176	18.66	1,235	0.386	1.620	1,735	1.003
6.34	6.34	227	101	0.11	0.063396	18.66	1.240	0.389	1.628	1,740	1.008
6.31	6.32	227	101	0.11	0.063176	18.66	1.240	0.386	1.626	1.740	1.005
6.39	6.39	227	101	0.11	0.063897	18.67	1.239	0.389	1.628	1,739	1.008
6.41	6.42	227	101	0.11	0.064187	18.68	1.239	0.389	1.627	1.739	1.008
6.44	6.44	227	101	0.11	0.064397	18.68	1.239	0.389	1.627	1,739	1.008
6.46	6.47	227	101	0.11	0.064687	18.69	1.238	0.389	1.627	1,738	1.008
6.49	6.49	227	101	0.11	0.064908	18.69	1.238	0.389	1.626	1.738	1.007
6.51	6.52	227	101	0.11	0.065188	18.70	1.237	0.389	1.626	1,737	1.007
6.54	6.54	227	101	0.11	0.065408	18.70	1.237	0.391	1.629	1,737	1.010
6.57	6.57	227	101	0.11	0.065698	18.71	1.237	0.391	1.628	1,737	1.010
6.59	6.59	227	101	0.11	0.065908	18.71	1.237	0.391	1.628	1.737	1.010
6.62	6.62	227	101	0.11	0.066199	18.72	1.236	0.391	1.627	1.736	1.009
6.64	6.64	227	101	0.11	0.066419	18.72	1.236	0.391	1.627	1.736	1.009
6.64	6.64	227	101	0.11	0.066419	18.72	1.236	0.391	1.627	1,736	1.009
6.69	6.69	227	101	0.11	0.066919	18.73	1.235	0.391	1.627	1.735	1.009
6.72	6.72	227	101	0.11	0.067209	18.74	1.235	0.391	1.626	1.735	1.009
6.74	6.74	227	100	0.11	0.067419	18.74	1.235	0.394	1.629	1.735	1.011
6.77	6.77	227	100	0.11	0.067710	18.75	1.234	0.394	1.628	1.734	1.011
6.79	6.79	227	100	0.11	0.067920	18.75	1.234	0.394	1.628	1.734	1.011

	Deform.	Celda	Presión	Incremento		Åree	Infuerro	a'3	- 11	=1	Erfuerzo
Deformación	Uniteria	Carga	de poros	deportos	Deform.	Correction	Dervindor	Electivo	Efectivo	Total	Promedio
(mm)	5	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(logt/cm <sup>2</sup> )
6.82	6.82	227	100	0.11	0.068210	18.76	1.233	0.394	1.628	1,733	1.011
6.84	6.84	226	100	0.11	0.068430	18.76	1.228	0.394	1.622	1.728	1.008
6.86	6.86	226	100	0.11	0.068640	18.77	1.227	0.394	1.622	1,727	1.008
6.89	6.89	226	100	0.11	0.068931	18.77	1.227	0.394	1.621	1.727	1.008
6.91	6.91	226	100	0.10	0.069141	18.78	1.227	0.397	1.624	1,727	1.010
6.94	6.94	225	100	0.10	0.069431	18.78	1.221	0.397	1.618	1.721	1.007
6.96	6.97	225	100	0.10	0.069651	18.79	1.221	0.397	1.618	1.721	1.007
6.98	6.99	225	100	0.10	0.069861	18.79	1.220	0.397	1.617	1.720	1.007
7.01	7.02	225	100	0.10	0.070151	18.80	1.220	0.397	1.617	1.720	1.007
7.04	7.04	224	100	0.10	0.070442	18.80	1.214	0.397	1.611	1.714	1.004
7.07	7.07	225	100	0.10	0.070722	18.81	1.219	0.397	1.616	1.719	1.007
7.09	7.09	224	100	0.10	0.070942	18.81	1.214	0.397	1.611	1.714	1.004
7.12	7.12	224	100	0.10	0.071232	18.82	1.213	0.397	1.610	1.713	1.004
7.14	7.14	224	100	0.10	0.071442	18.82	1.213	0.397	1.610	1.713	1.003
7.16	7.17	224	100	0.10	0.071663	18.83	1.213	0.397	1.610	1.713	1.003
7.19	7.20	224	100	0.10	0.071953	18.84	1.212	0.397	1.609	1.712	1.003
7.21	7.22	224	100	0.10	0.072163	18.84	1.212	0.397	1.609	1.712	1.003
7.24	7.25	224	100	0.10	0.072453	18.85	1.212	0.397	1.609	1.712	1.003
7.26	7.27	224	100	0.10	0.072663	18.85	1.211	0.397	1.608	1.711	1.003
7.29	7.30	224	100	0.10	0.072953	18.85	1.211	0.400	1.611	1.711	1.005
7.31	7.32	224	100	0.10	0.073174	18.86	1.211	0.400	1.610	1.711	1.005
7.34	7.35	223	100	0.10	0.073454	18.87	1.205	0.400	1.605	1.705	1.002
7.37	7.37	224	100	0.10	0.073744	18.87	1.210	0.400	1.610	1.710	1.005
7.39	7.40	224	100	0.10	0.073964	18.88	1.210	0.400	1.609	1.710	1.005
7.41	7.42	224	100	0.10	0.074174	18.88	1.209	0.400	1.809	1.709	1.004
7.44	7.45	224	100	0.10	0.074465	18.89	1.209	0.400	1.609	1.709	1.004
1.41	7.48	224	100	0.10	0.074755	18.89	1.209	0.400	1.608	1.709	1.004
7.49	7.50	223	100	0.10	0.074965	18.90	1.203	0.400	1.603	1.703	1.001
7.51	7.52	223	100	0.10	0.075185	18.90	1.203	0.400	1.602	1.703	1.001
7.54	7.55	223	100	0.10	0.075475	18.91	1.202	0.400	1.602	1.702	1.001
7.57	7.58	223	100	0.10	0.075756	18.91	1.202	0.400	1.602	1.702	1.001
7.59	7.00	223	33	0.10	0.075976	10.32	1.202	0.402	1.004	1.702	1.005
7.52	7.63	223	100	0.10	0.076266	18.92	1.201	0,400	1.501	1.001	1.000
7.04	7.00	222	100	0.10	0.076766	19.93	1.190	0.402	1.396	1.696	0.997
7.60	7.70	222	100	0.10	0.076076	10.04	1 105	0,400	1 505	1 695	0.007
7.03	7.79	222	99	0.10	0.070976	18.94	1 195	0.402	1.597	1.695	1.000
7.74	7.76	222	00	0.10	0.077897	10.05	1.000	0.403	1.600	1 300	1.000
7.77	7.78	223	99	0.10	0.077767	18.95	1 199	0.402	1.602	1.699	1 002
7.79	7.80	223	99	0.10	0.077987	18.96	1 199	0.402	1.602	1.699	1 002
7.82	7.82	224	99	0.10	0.078207	18.96	1 204	0.402	1.607	1 204	1.005
7.84	7.85	224	99	0.10	0.078488	18.97	1.204	0.402	1.606	1,704	1.004
7.87	7.87	225	99	0.10	0.078708	18.97	1,209	0.402	1.611	1,709	1.007
7.89	7.90	225	99	0.10	0.078998	18.98	1.208	0.402	1.611	1.708	1.007
7.92	7.92	226	99	0.09	0.079208	18.98	1.214	0.405	1.619	1.714	1.012
7.94	7.95	227	99	0.09	0.079498	18.99	1.219	0.405	1.624	1.719	1.015
7.97	7.97	228	99	0.10	0.079708	18.99	1.224	0.402	1.626	1.724	1.014
7.99	7.99	228	99	0.09	0.079929	19.00	1.223	0.405	1.629	1.723	1.017
8.02	8.02	229	99	0.09	0.080219	19.00	1.228	0.405	1.634	1.728	1.019
8.04	8.04	230	99	0.09	0.080429	19.01	1.233	0.405	1.639	1.733	1.022
8.06	8.06	230	99	0.09	0.080649	19.01	1.233	0.405	1.638	1.733	1.022
8.09	8.09	231	99	0.09	0.080929	19.02	1.238	0.405	1.643	1.738	1.024

	Deform.	Celda	Presión	incremento		Åres	Latuerzo	13	11	:1	Erfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Correcide	Derviedor	Electivo	Bectivo	Total	Promedio
(mm)	56	N	(kPa)	(kg//cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(log1/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
8.11	8.11	222	99	0.09	0.081150	19.02	1.249	0.405	1654	1 749	1.029
8.14	8.14	233	99	0.09	0.081440	19.03	1 248	0.405	1.653	1748	1.029
816	8.16	234	99	0.09	0.081650	19.03	1 253	0.405	1.658	1 753	1.082
8.18	8.19	234	99	0.09	0.081870	19.04	1 253	0.405	1.658	1753	1.032
0.10	0.33	33.4	00	0.00	0.001150	10.04	1.000	0.400	1 661	1 753	1.004
9.74	9.34	224	99	0.09	0.002100	10.05	1 357	0.405	1.001	1752	1.034
8.76	8.27	234	99	0.09	0.082661	19.05	1.252	0.408	1.660	1752	1.034
9.20	9.90	334	99	0.09	0.093951	10.06	1 351	0.408	1 650	1 751	1.024
0.23	0.30	224	32	0.09	0.082161	19.05	1.251	0.408	1.659	1.751	1.024
0.04	0.00	2.04	00	0.00	0.0003101	10.07	4.954	0,400	1.000	1.751	1,000
0.34	0.33	230	33	0.09	0.083661	10.02	1.054	0.408	1.004	1.756	1.026
9.39	9.40	200	33	0.09	0.083953	10.00	1.355	0.408	1.004	1 755	1.000
0.39	0.40	222	32	0.09	0.001170	12.00	4,000	0.408	1.003	1,755	1.030
0.41	0.44	230	33	0.09	0.004172	10.00	1.200	0.402	1.071	1.755	1.025
0.43	0.44	433	33	0.03	0.004302	13.00	1.200	0.409	1.003	1,700	1.000
8.40	8.47	235	39	0.09	0.084672	19.10	1.260	0.408	1.668	1.760	1.038
8.48	8.49	257	39	0.09	0.084892	19.10	1.265	0.408	1.673	1.765	1.040
8.51	8.52	257	39	0.09	0.085172	19.11	1.264	0.408	1.672	1.764	1.040
8.53	8.54	258	99	0.09	0.085393	19.11	1.269	0.411	1.680	1.769	1.046
8.55	8.56	257	99	0.09	0.085603	19.12	1.264	0.411	1.675	1.764	1.043
8.58	8.59	257	99	0.09	0.085893	19.12	1.263	0.411	1.674	1.763	1.043
8.61	8.61	237	99	0.09	0.086113	19.13	1.263	0.411	1.674	1.763	1.042
8.63	8.64	257	99	0.09	0.086393	19.13	1.263	0.411	1.674	1.763	1.042
8.66	8.67	237	99	0.09	0.086684	19.14	1.262	0.411	1.673	1.762	1.042
8.68	8.69	237	99	0.09	0.086904	19.14	1.262	0.411	1.673	1.762	1.042
8.71	8.72	237	99	0.09	0.087184	19.15	1.262	0.411	1.672	1.762	1.042
8.73	8.74	236	98	0.09	0.087404	19.15	1.256	0.414	1.670	1.756	1.042
8.76	8.77	236	99	0.09	0.087694	19.16	1.256	0.411	1.666	1.756	1.039
8.78	8.79	237	99	0.09	0.087904	19.16	1.261	0.411	1.671	1.761	1.041
8.81	8.81	237	99	0.09	0.088125	19.17	1.260	0.411	1.671	1.760	1.041
8.83	8.84	237	98	0.09	0.088405	19.17	1.260	0.414	1.674	1.760	1.044
8.86	8.85	236	99	0.09	0.088625	19.18	1.254	0.411	1.665	1754	1.038
8.89	8.89	237	98	0.09	0.088915	19.19	1.259	0.414	1.673	1.759	1.043
8.91	8.91	237	98	0.09	0.089125	19.19	1.259	0.414	1.673	1,759	1.043
8.94	8.94	236	98	0.09	0.089416	19.20	1.253	0.414	1.667	1.753	1.040
8.96	8.96	235	98	0.09	0.089636	19.20	1.248	0.414	1.661	1.748	1.037
8.98	8.98	235	98	0.09	0.089846	19.21	1.247	0.414	1.661	1.747	1.037
9.01	9.01	235	98	0.09	0.090136	19.21	1.247	0.414	1.661	1.747	1.037
9.03	9.03	234	98	0.09	0.090346	19.22	1.241	0.414	1.655	1.741	1.034
9.06	9.06	233	98	0.08	0.090636	19.22	1.236	0.416	1.652	1.736	1.034
9.09	9.09	233	98	0.09	0.090927	19.23	1.235	0.414	1.649	1.735	1.031
9.11	9.11	232	98	0.09	0.091137	19.23	1.230	0.414	1.643	1.730	1.028
9.13	9.14	232	98	0.08	0.091357	19.24	1.229	0.416	1.646	1.729	1.031
9.16	9.16	232	98	0.08	0.091647	19.24	1.229	0.416	1.645	1.729	1.031
9.18	9.19	232	- 98	0.08	0.091857	19.25	1.229	0.416	1.645	1.729	1.031
9.21	9.21	232	- 98	0.08	0.092148	19.25	1.228	0.416	1.645	1.728	1.031
9.23	9.24	231	98	0.08	0.092368	19.26	1.223	0.416	1.639	1.723	1.028
9.26	9.26	231	98	0.08	0.092648	19.26	1.222	0.416	1.639	1.722	1.028
9.28	9.29	231	- 98	0.08	0.092868	19.27	1.222	0.416	1.638	1722	1.027
9.31	9.32	231	98	0.08	0.093158	19.28	1.222	0.416	1.638	1.722	1.027
9.33	9.34	231	98	0.08	0.093368	19.28	1.221	0.419	1.641	1.721	1.030
9.35	9.36	230	98	0.08	0.093589	19.28	1.216	0.416	1.632	1.716	1.024
9.38	9.39	230	98	0.08	0.093869	19.29	1.215	0.419	1.635	1.715	1.027

	Deform.	Celda	Presión	Incremento		Åren	Estuano	13	11	=1	Enfuerzo
Deformación	Unitaria	Corga	de poros	deporos	Deform.	Corregida	Dervision	Electivo	Electivo	Total	Promedio
(mm)	56	N	(kPa)	(kg//cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(last/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
9,41	9.42	229	98	0.08	0.094159	19.30	1.210	0.419	1.629	1.710	1.024
9.43	9.44	228	98	0.08	0.094379	19.30	1.204	0.419	1.623	1.704	1.021
9.46	9.47	228	98	0.08	0.094659	19.31	1.204	0.419	1.623	1,704	1.021
9.48	9,49	228	98	0.08	0.094880	19.31	1.203	0.419	1.623	1,703	1.021
9.51	9.52	228	98	0.08	0.095170	19 32	1 203	0.419	1.622	1 203	1.021
9.53	9.54	227	98	0.08	0.095380	19.32	1.198	0.419	1.617	1.698	1.018
9.56	9.57	227	98	0.08	0.095670	19.33	1,197	0.419	1.616	1.697	1.018
9.58	9.59	227	98	0.08	0.095890	19.33	1 197	0.419	1.616	1.697	1.018
9.61	9.62	226	98	0.08	0.095171	19.94	1 191	0.419	1.610	1.691	1.015
0.62	0.64	226	00	0.08	0.006201	10.34	1 101	0.419	1,610	1 691	1.015
9.65	9.64	220	99	0.08	0.096691	10.05	1 101	0.419	1.610	1.691	1.015
9.68	9.68	227	98	0.00	0.096821	19.95	1.196	0.422	1.618	1.695	1.020
0.70	0.74	227	00	0.00	0.007111	10.00	1.100	0.410	1.010	1.000	1.017
3.70	3.71	227	20	0.00	0.0077111	10.00	1.100	0.413	1.014	1,000	1.010
3.73	3.73	227	20	0.00	0.097321	13.30	1.195	0.422	1.017	1.095	1.015
9.75	9.75	228	98	0.08	0.097542	19.37	1.200	0.422	1.622	1.700	1.022
9.78	9.78	228	98	0.08	0.097822	19.38	1.200	0.422	1.622	1.700	1.022
9.80	9.80	229	98	0.08	0.098042	19.38	1.205	0.422	1.626	1.705	1.024
9.82	9.83	229	98	0.08	0.098262	19.38	1.204	0.422	1.626	1.704	1.024
9.85	9.85	230	98	0.08	0.098542	19.39	1.209	0.422	1.631	1.709	1.027
9.87	9.88	250	98	0.08	0.098762	19.40	1.209	0.422	1.631	1.709	1.026
9.90	9.91	230	98	0.08	0.099053	19.40	1.208	0.422	1.630	1.708	1.026
9.92	9.93	230	98	0.08	0.099263	19.41	1.208	0.422	1.630	1.708	1.026
9.95	9,96	230	98	0.08	0.099553	19.41	1.208	0.422	1.630	1.708	1.026
9.97	9.98	231	97	0.08	0.099763	19.42	1.213	0.425	1.637	1.713	1.031
10.00	10.01	231	97	0.08	0.100053	19.42	1.212	0.425	1.637	1.712	1.031
10.02	10.03	231	97	0.08	0.100274	19.43	1.212	0.425	1.637	1.712	1.031
10.04	10.05	232	97	0.08	0.100484	19.43	1.217	0.425	1.642	1.717	1.033
10.06	10.07	232	97	0.08	0.100704	19.44	1.217	0.425	1.641	1.717	1.033
10.09	10.10	233	97	0.08	0.100984	19.44	1.222	0.425	1.646	1.722	1.035
10.11	10.12	233	97	0.08	0.101204	19.45	1.221	0.425	1.646	1.721	1.035
10.14	10.15	233	97	0.08	0.101494	19.45	1.221	0.425	1.646	1.721	1.035
10.17	10.18	233	97	0.08	0.101785	19.46	1.220	0.425	1.645	1.720	1.035
10.19	10.20	233	97	0.08	0.101995	19.47	1.220	0.425	1.645	1.720	1.035
10.21	10.22	234	97	0.08	0.102215	19.47	1.225	0.425	1.650	1.725	1.037
10.24	10.25	234	97	0.08	0.102495	19.48	1.225	0.425	1.649	1.725	1.037
10.27	10.28	234	97	0.08	0.102785	19.48	1.224	0.425	1.649	1.724	1.037
10.29	10.30	235	97	0.07	0.103006	19.49	1.229	0.428	1.657	1.729	1.042
10.32	10.33	235	97	0.07	0.103286	19.49	1.229	0.428	1.656	1,729	1.042
10.35	10.36	236	97	0.07	0.103576	19.50	1.234	0.428	1.661	1.734	1.044
10.37	10.38	237	97	0.07	0.103796	19.50	1.239	0.428	1.666	1,739	1.047
10.39	10.40	238	97	0.07	0.104006	19.51	1.244	0.428	1.671	1.744	1.049
10.42	10.43	238	97	0.07	0.104296	19.52	1.243	0.428	1.671	1,743	1.049
10.44	10.45	239	97	0,07	0.104507	19.52	1.748	0.428	1,676	1,748	1.052
10.47	10.48	240	97	0,07	0.104797	19.53	1.253	0,428	1,680	1.753	1.054
10.49	10.50	241	97	0,07	0.105017	19.53	1.258	0.428	1,685	1.758	1.056
10.52	10.53	241	97	0.07	0.105297	19.54	1 257	0.480	1688	1 757	1,059
10.52	10.55	242	97	0.07	0.105297	19.54	1 263	0,420	1,600	1 363	1,001
10.57	10.00	242	97	0.07	0.105909	10 00	1 262	0.498	1 603	1 363	1.001
10.60	10.61	349	97	0.07	0.100000	10 55	1.247	0.400	1,607	1 767	1.004
10.60	10.61	243	97	0.07	0.106068	19.33	1.207	0.430	1,202	1.722	1,009
10.03	10.04	2.444	35	0.07	0.100076	10.00	4.274	0.430	4,202	4.774	1.000
10.05	10.00	299	37	0.07	0.105036	10.07	4.271	0.430	4,702	1.771	1.000
10.68	10.69	- 243	37	0.07	0.105676	13.37	1.275	0.430	1.705	1.116	1.055

	Deform.	Celda	Presiden	Incremento		Åres	Lifuerto	13	11	=1	Eduerzo
Deformación	Unitaria	Cargo	de poros	deportos	Deform.	Correction	Dervindor	Electivo	Electivo	Total	Promedio
(mm)	56	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kg//cm <sup>2</sup> )
10.20	10.71	345	97	0.07	0.102099	19.58	1.276	0.430	1 205	1 776	1068
10.73	10.74	245	97	0.07	0.107389	19.58	1.275	0.430	1,706	1.775	1.068
10.76	10.77	245	97	0.07	0.107669	19.59	1 275	0.430	1 205	1 775	1068
10.79	10.80	245	97	0.07	0.107959	19.60	1.275	0.430	1,705	1775	1.068
10.81	10.82	345	96	0.07	0.108179	19.60	1.274	0.433	1 202	1 774	1.070
10.83	10.84	345	96	0.07	0.108389	19.60	1 274	0.433	1 207	1 774	1.070
10.86	10.87	246	96	0.07	0 108680	19.61	1.279	0.433	1 712	1 779	1072
10.89	10.50	346	96	0.07	0.108970	19.63	1.278	0.433	1 711	1 778	1.072
10.92	10.93	246	96	0.07	0.109260	19.62	1 278	0.433	1 711	1 778	1072
10.94	10.05	244	04	6.07	0.109470	10.02	1.379	0.422	1 711	1 779	1.073
10.97	10.93	247	96	0.07	0.109760	19.63	1.282	0.433	1 715	1 782	1074
11.00	11.01	247	96	0.07	0.110051	19.64	1 282	0.433	1 715	1 782	1074
11.00	11.00	347	00	0.07	0.110061	10.00	1.393	0.400	1 715	1 793	1.074
11.05	11.05	247	96	0.07	0.110551	19.65	1.281	0.433	1 714	1 781	1.074
11.03	11.00	247	00	0.07	0.110361	10.00	1 301	0.400	1 313	1 701	1.076
11.07	11.00	340	20	0.00	0.110761	10.00	1.201	0.400	1.717	1 701	1.070
11.10	11 12	240	90	0.06	0.111051	10.67	1.200	0.439	1.722	1 795	1.091
44.45	44.44	343	00	0.00	0.111071	10.07	1.000	0.400	4.746	4 390	1.036
11.15	11.10	247	20	0.06	0.111952	10.07	1.200	0.436	1,710	1 795	1.079
11.10	11.10	240	90	0.06	0.111042	10.60	1.200	0.436	1,720	1 784	1.078
11.33	44.32	240	00	0.00	0.112002	10.00	1.004	0.430	1 7 2 2	1 704	1.091
11.22	11.23	240	30	0.06	0.112272	19.69	1.209	0.435	1.723	1.704	1.001
11.25	11.20	240	30	0.00	0.112503	10.70	1.200	0.400	4,719	1.703	1.070
11.20	11.29	240	30	0.06	0.112053	19.70	1.203	0.439	1.722	1.703	1.000
11.30	11.51	240	30	0.06	0.112063	19.71	1.203	0.439	1.721	1.703	1.080
11.35	11.39	240	30	0.00	0.113353	10.71	1.202	0.433	1.721	1.702	1.000
11.35	11.30	240	35	0.06	0.113063	19.72	1.202	0.435	1.721	1.702	1.080
11.30	11.39	290	30	0.05	0.113053	19.73	1.202	0.441	1.723	1.762	1.002
11.41	11.41	248	95	0.06	0.114144	19.73	1.281	0.441	1.725	1.781	1.082
11.45	11.44	240	30	0.06	0.114004	10.74	1.201	0.439	1.720	1.701	1.079
11.40	11.40	240	30	0.00	0.114044	13.79	1.200	0.433	4,700	1.700	1.073
11.49	11.49	240	35	0.06	0.114934	19.75	1.200	0.441	1.722	1.780	1.001
11.51	11.52	290	30	0.00	0.115159	13.75	1.200	0.441	1.721	1.760	1.001
11.54	11.54	248	95	0.06	0.115435	19.76	1.279	0.441	1.721	1.779	1.081
11.30	11.57	240	30	0.05	0.115035	13.77	1.279	0.441	1.720	1.779	1.001
11.59	11.59	290	30	0.00	0.115045	13.77	1.279	0.441	1.720	1.773	1.001
11.61	11.62	248	35	0.05	0.116155	19.78	1.278	0.444	1.723	1.778	1.083
11.04	11.09	290	30	0.00	0.110440	13.70	1.270	0.441	1.719	1.770	1.000
11.66	11.57	248	35	0.05	0.116656	19.79	1.278	0.444	1.722	1.7/8	1.083
11.00	11.03	240	35	0.05	0.1100/0	13.73	1.277	0.444	1.721	1.772	1.000
44.74	11.72	697	35	0.00	0.117100	13.60	1.272	0.444	1.710	1.072	1000
11.74	11.74	248	35	0.05	0.117446	19.81	1.276	0.444	1.721	1.7/6	1.082
11.70	11.//	240	30	0.00	0.117000	13.61	1.270	0.444	1.720	1//6	1002
11.78	11.79	248	95	0.06	0.117876	19.82	1.276	0.444	1.720	17/6	1.082
11.80	11.81	248	35	0.05	0.118097	19.82	1.275	0.444	1.720	1//5	1.082
11.83	11.84	247	30	0.05	0.118387	19.83	1.270	0.444	1./14	1.770	1.079
11.85	11.85	247	35	0.05	0.118597	19.83	1.270	0.444	1.714	1.//0	1.079
11.88	11.89	247	35	0.05	0.118887	19.84	1.269	0.447	1./15	1.769	1.082
11.90	11.91	240	30	0.05	0.119107	19.84	1.264	0.447	1./11	1.764	1.079
11.92	11.93	246	35	0.05	0.119317	19.85	1.263	0.447	1./10	1.763	1.079
11.95	11.96	248	35	0.05	0.119608	19.85	1.263	0.447	1./10	1.763	1.079
11.97	11.58	246	35	0.05	0.119818	19.86	1.263	0.447	1./10	1.763	1.078
12.00	12.01	246	95	0.05	0.120108	19.87	1.262	0.447	1.709	1.762	1.078

ľ		Deform.	Celda	Presión	Incremento		Area	Estuerro	a'3	11	=1	Erfuerzo
	Deformación	Unitaria	Cargo	de poros	deportos	Deform.	Correction	Dervindor	Efectivo	Electivo	Total	Promedio
	(mm)	56	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
ľ	12.02	12.03	246	95	0.05	0.120828	19.87	1.262	0.447	1,709	1,762	1.078
ŀ	12.05	12.05	246	95	0.05	0.120538	19.88	1.262	0.447	1,709	1,762	1.078
ŀ	12.07	12.08	245	95	0.05	0.120759	19.88	1 256	0.450	1 706	1 756	1.078
ŀ	12.10	12.10	245	95	0.05	0.121049	19.89	1,256	0.447	1,703	1,756	1.075
ŀ	13.13	13.13	345	95	0.05	0.101050	10.99	1 354	0.450	1 705	1 754	1.078
ŀ	12.15	12.15	245	95	0.05	0.121549	19.90	1 255	0.450	1 705	1 755	1077
ŀ	12.17	12.18	245	95	0.05	0.121759	19.90	1.255	0.450	1,705	1,755	1.077
ŀ	12.20	12.20	244	95	0.05	0.122050	19.91	1.249	0.450	1.699	1 749	1.074
ŀ	12.22	12.23	345	95	0.05	0.122220	19.91	1 254	0.450	1 204	1 754	1.077
ŀ	13.35	10.05	344	95	0.05	0.133650	10.03	1 349	0.450	1.609	1 749	1.074
ŀ	12.23	12.23	244	30	0.05	0.122200	10.02	1.243	0.450	1.000	1 749	1.074
ŀ	12.29	12.20	244	95	0.05	0.122370	19.93	1.240	0.450	1.698	1 748	1.074
ŀ	10.00	43.00	2.40	0.0	0.05	0.1212000	10.04	1.240	0.450	1.005	4 74 7	1.024
ŀ	12.32	12.33	243	29	0.05	0.123270	10.04	1.242	0.453	1.005	1.742	1.074
ŀ	12.39	12.33	293	24	0.05	0.123491	10.04	1.242	0.453	1.005	1.742	1.074
ŀ	12.37	12.38	243	94	0.05	0.123771	19.95	1.242	0.453	1.694	1.742	1.073
ŀ	12.39	12.40	243	94	0.05	0.123991	19.95	1.241	0.455	1.694	1.741	1.073
ŀ	12.42	12.43	243	94	0.05	0.124281	19.96	1.241	0.453	1.694	1.741	1.073
ŀ	12.44	12.45	242	94	0.05	0.124491	19.97	1.236	0.453	1.688	1.736	1.070
ŀ	12.46	12.47	243	94	0.05	0.124711	19.97	1.240	0.453	1.695	1.740	1.073
ŀ	12.49	12.50	242	94	0.05	0.125002	19.98	1.235	0.453	1.687	1.735	1.070
L	12.52	12.53	242	94	0.05	0.125282	19.98	1.234	0.453	1.687	1.734	1.070
L	12.54	12.55	242	94	0.04	0.125502	19.99	1.234	0.455	1.690	1.734	1.072
ŀ	12.56	12.57	242	94	0.04	0.125712	19.99	1.234	0.455	1.689	1.734	1.072
L	12.59	12.60	242	94	0.04	0.126002	20.00	1.233	0.455	1.689	1.733	1.072
	12.61	12.62	242	- 94	0.04	0.126223	20.00	1.233	0.455	1.689	1.733	1.072
L	12.64	12.65	241	94	0.04	0.126503	20.01	1.228	0.455	1.683	1.728	1.069
L	12.66	12.67	241	94	0.04	0.126723	20.02	1.227	0.455	1.683	1.727	1.069
L	12.69	12.70	241	94	0.04	0.127013	20.02	1.227	0.455	1.682	1.727	1.069
	12.71	12.72	241	94	0.04	0.127223	20.03	1.227	0.455	1.682	1.727	1.069
l	12.74	12.75	240	- 94	0.04	0.127514	20.03	1.221	0.458	1.679	1.721	1.069
ſ	12.76	12.77	240	94	0.04	0.127734	20.04	1.221	0.455	1.676	1.721	1.065
ſ	12.79	12.80	241	94	0.04	0.128014	20.05	1.226	0.455	1.681	1.726	1.068
ſ	12.82	12.83	241	94	0.04	0.128304	20.05	1.225	0.458	1.683	1.725	1.071
ſ	12.84	12.85	241	94	0.04	0.128524	20.05	1.225	0.458	1.683	1.725	1.071
ľ	12.86	12.87	242	94	0.04	0.128734	20.05	1.230	0.458	1.688	1.730	1.073
ſ	12.89	12.90	242	94	0.04	0.128955	20.07	1.229	0.458	1.687	1.729	1.073
ſ	12.91	12.92	242	94	0.04	0.129165	20.07	1.229	0.458	1.687	1.729	1.073
ľ	12.94	12.95	244	94	0.04	0.129455	20.08	1.239	0.458	1.697	1.739	1.078
ľ	12.95	12.96	244	94	0.04	0.129595	20.08	1.239	0.461	1.700	1.739	1.080
ľ	12.98	12.99	245	94	0.04	0.129885	20.09	1.243	0.461	1.704	1.743	1.083
ŀ	13.00	13.01	245	94	0.04	0.130105	20.09	1.243	0.461	1.704	1,743	1.082
ľ	13.03	13.04	246	94	0.04	0.130386	20.10	1.248	0.458	1,706	1,748	1.082
ŀ	13.06	13.07	247	94	0.04	0.130676	20.11	1 252	0.461	1713	1 752	1.087
ŀ	13.09	13:10	247	94	0.04	0.130966	20.11	1.252	0.461	1713	1 752	1.087
ŀ	13.12	13:12	247	94	0.04	0.131246	20.12	1,251	0.461	1,712	1,751	1.087
ŀ	13.14	19.15	248	94	0.04	0.131466	20.13	1 256	0.461	1 717	1756	1.089
ŀ	13.16	1317	248	94	0.04	0.131687	20.13	1,256	0,461	1,717	1756	1.089
ŀ	13.19	13.20	249	94	0.04	0.131967	20.14	1,260	0.461	1,721	1,750	1.091
ŀ	13.33	19.99	3,40	99	0.04	0.189967	20.14	1 260	0.464	1 7 24	1,760	1,004
ŀ	13.24	19.25	2.40	94	0.04	0.132477	20.15	1 260	0.461	1 721	1 260	1.091
ŀ	40.07	40.50	3.40	00	0.04	0.100707	20.55	4.900	0.464	1 7 2 2	1 750	1,000
ŀ	12.27	19.20	293	22	0.04	0.132757	20.10	1.200	0.464	1.723	1.759	1,000
1	1.0.16.20	13.30	100	33		0.135310	AC 1.4 A 100	1.000	0.404	4.6.00	1. 1000	1.000

	Deform.	Celda	Presión	Incremento		Åres	Eriseno	:3	11	s1	Enfuerco
Deformación	Unitaria	Cargo	de poros	deportos	Deform.	Corregida	Derviedor	Electivo	Efectivo	Total	Promedio
(mm)	<b>%</b>	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(hgt/cm <sup>2</sup> )
13.32	13.33	250	93	0.04	0.133268	20.17	1.264	0.464	1.727	1.764	1.096
13.34	13.35	251	93	0.04	0.133478	20.17	1.268	0.464	1.732	1.768	1.098
13.37	13.38	251	93	0.03	0.133768	20.18	1.268	0.467	1.735	1.768	1.101
13.39	13.40	251	93	0.04	0.133978	20.18	1.268	0.464	1.731	1.768	1.098
13.42	13.43	251	93	0.04	0.134268	20.19	1.267	0.464	1.731	1.767	1.097
13.44	13.45	252	93	0.03	0.134489	20.20	1.272	0.467	1.739	1.772	1.103
13.47	13.48	252	93	0.03	0.134769	20.20	1.272	0.467	1.738	1.772	1.102
13.49	13.50	252	93	0.03	0.134989	20.21	1.271	0.467	1.738	1.771	1.102
13.52	13.53	252	93	0.03	0.135279	20.21	1.271	0.467	1.737	1.771	1.102
13.54	13.55	253	93	0.03	0.135489	20.22	1.276	0.467	1.742	1.776	1.104
13.56	13.57	253	93	0.03	0.135710	20.22	1.275	0.467	1.742	1.775	1.104
13.58	13.59	254	93	0.03	0.135920	20.23	1.280	0.467	1.746	1.780	1.107
13.61	13.62	254	93	0.03	0.136210	20.24	1.279	0.467	1.746	1.779	1.105
13.64	13.65	254	93	0.03	0.136500	20.24	1.279	0.467	1.746	1.779	1.106
13.66	13.67	254	93	0.03	0.136710	20.25	1.279	0.469	1.748	1.779	1.109
13.69	13.70	254	93	0.03	0.137000	20.25	1.278	0.469	1.748	1.778	1.109
13.71	13.72	254	93	0.03	0.137221	20.26	1.278	0.469	1.747	1.778	1.108
13.74	13.75	254	93	0.03	0.137501	20.27	1.278	0.469	1.747	1.778	1.108
13.77	13.78	254	93	0.03	0.137791	20.27	1.277	0.469	1.746	1.777	1.108
13.80	13.81	253	- 93	0.03	0.138081	20.28	1.272	0.472	1.744	1.772	1.108
13.83	13.84	253	93	0.03	0.138371	20.29	1.271	0.469	1.741	1.771	1.105
13.85	13.86	253	93	0.03	0.138582	20.29	1.271	0.469	1.740	1.771	1.105
13.88	13.89	253	93	0.03	0.138872	20.30	1.271	0.469	1.740	1.771	1.105
13.90	13.91	252	93	0.03	0.139082	20.30	1.265	0.472	1.737	1.765	1.105
13.93	13.94	253	93	0.03	0.139372	20.31	1.270	0.472	1.742	1.770	1.107
13.96	13.97	252	93	0.03	0.139662	20.32	1.264	0.472	1.736	1.764	1.104
13.98	13.99	253	93	0.03	0.139873	20.32	1.269	0.472	1.741	1,769	1.107
14.00	14.01	252	93	0.03	0.140093	20.33	1.264	0.472	1.736	1.764	1.104
14.03	14.04	252	93	0.03	0.140383	20.33	1.263	0.472	1.735	1.763	1.104
14.06	14.07	252	92	0.03	0.140663	20.34	1.263	0.475	1.738	1.763	1.106
14.09	14.10	251	92	0.03	0.140953	20.35	1.257	0.475	1.732	1.757	1.104
14.11	14.12	251	92	0.03	0.141174	20.35	1.257	0.475	1.732	1.757	1.103
14.14	14.15	251	92	0.03	0.141454	20.36	1.257	0.475	1.732	1.757	1.103
14.16	14.17	250	92	0.03	0.141674	20.37	1.251	0.475	1.726	1.751	1.101
14.19	14.20	250	92	0.03	0.141964	20.37	1.251	0.475	1.726	1.751	1.100
14.21	14.22	249	92	0.03	0.142244	20.38	1.246	0.475	1.720	1.746	1.098
14.24	14.25	249	92	0.03	0.142464	20.38	1.245	0.475	1.720	1.745	1.098
14.27	14.28	249	92	0.02	0.142755	20.39	1.245	0.478	1.723	1.745	1.100
14.29	14.30	248	92	0.02	0.142965	20.40	1.239	0.478	1.717	1.739	1.097
14.31	14.32	248	92	0.02	0.143185	20.40	1.239	0.478	1.717	1.739	1.097
14.34	14.35	248	92	0.02	0.143475	20.41	1.239	0.478	1.716	1,739	1.097
14.36	14.37	248	92	0.02	0.143685	20.41	1.238	0.478	1.716	1.738	1.097
14.39	14.40	248	92	0.02	0.143976	20.42	1.238	0.478	1.716	1.738	1.097
14.42	14.43	247	92	0.02	0.144266	20.43	1.233	0.478	1.710	1.733	1.094
14.44	14.45	246	92	0.02	0.144476	20.43	1.227	0.478	1.705	1.727	1.091
14.47	14.48	246	92	0.02	0.144766	20.44	1.227	0.480	1.707	1.727	1.094
14.50	14.51	245	92	0.02	0.145056	20.45	1.222	0.478	1.699	1.722	1.088
14.52	14.53	245	92	0.02	0.145267	20.45	1.221	0.480	1.702	1.721	1.091
14.54	14.55	245	92	0.02	0.145487	20.46	1.221	0.480	1.701	1.721	1.091
14.57	14.58	245	92	0.02	0.145767	20.46	1.220	0.480	1.701	1.720	1.091
14.60	14.61	244	92	0.02	0.146057	20.47	1.215	0.480	1.696	1.715	1.088
14.62	14.63	244	92	0.02	0.146277	20.47	1.215	0.480	1.695	1.715	1.088

	Deform.	Celda	Presiden	Incremento		Åren	Eriverto	a'3	a'1	=1	Erfuerzo
Deformación	Unitaria	Carga	de poros	deporos	Deform.	Corregida	Derviedor	Electivo	Bectivo	Total	Promedio
(mm)	*	N	(kPa)	(kg!/cm*)	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kg//cm <sup>2</sup> )
14.65	14.66	243	92	0.02	0.146557	20.48	1.209	0,480	1.690	1,709	1.085
14.67	14.68	242	92	0.02	0.146778	20.49	1.204	0.480	1.685	1.704	1.083
14.70	14.71	242	91	0.02	0.147068	20.49	1.204	0.483	1.687	1,704	1.085
14.72	14.73	241	92	0.02	0.147348	20.50	1.198	0.480	1.679	1.698	1.080
14.75	14.76	241	91	0.02	0.147568	20.51	1.198	0.483	1.681	1.698	1.082
14.78	14.79	240	91	0.02	0.147858	20.51	1.193	0.483	1.676	1.693	1.080
14.80	14.81	239	91	0.02	0.148069	20.52	1.187	0.483	1.671	1.687	1.077
14.83	14.84	239	91	0.02	0.148359	20.52	1.187	0.483	1.670	1.687	1.077
14.85	14.86	239	91	0.02	0.148649	20.53	1.187	0.483	1.670	1.687	1.077
14.88	14.89	239	91	0.02	0.148859	20.54	1.186	0,483	1.670	1.686	1.076
14.90	14.91	239	91	0.01	0.149079	20.54	1.186	0.486	1.672	1.686	1.079
14.93	14.94	240	91	0.01	0.149370	20.55	1.191	0.486	1.677	1.691	1.081
14.95	14.96	241	91	0.01	0.149580	20.55	1.195	0.486	1.681	1.695	1.084
14.97	14.98	241	91	0.01	0.149800	20.56	1.195	0.486	1.681	1.695	1.084
14,99	15.00	241	91	0.01	0.150010	20.56	1.195	0.486	1.681	1.695	1.083
15.02	15.03	242	91	0.01	0.150800	20.57	1.199	0.485	1.685	1.699	1.086
15.04	15.05	242	91	0.01	0.150510	20.58	1.199	0.486	1.685	1.699	1.085
15.07	15.08	242	91	0.01	0.150801	20.58	1.198	0.489	1.687	1.698	1.088
15.09	15.10	242	91	0.01	0.151021	20.59	1.198	0.485	1.684	1.698	1.085
15.11	15.12	243	91	0.01	0.151231	20.59	1.203	0.486	1.689	1.703	1.087
15.14	15.15	243	91	0.01	0.151521	20.60	1.202	0.486	1.688	1,702	1.087
15.16	15.17	243	91	0.01	0.151741	20.61	1.202	0.489	1.691	1.702	1.090
15.18	15.20	243	91	0.01	0.151951	20.61	1.202	0,489	1.691	1,702	1.090
15.21	15.22	244	91	0.01	0.152242	20.62	1.206	0.489	1.695	1.706	1.092
15.24	15.25	244	91	0.01	0.152532	20.63	1.206	0.489	1.695	1.706	1.092
15.26	15.27	244	91	0.01	0.152742	20.63	1.206	0.489	1.694	1,706	1.092
15.29	15.30	244	91	0.01	0.152962	20.64	1.205	0.489	1.694	1.705	1.091
15.31	15.32	244	91	0.01	0.153242	20.64	1.205	0,492	1.697	1,705	1.094
15.34	15.35	244	91	0.01	0.153463	20.65	1.205	0.492	1.696	1,705	1.094
15.36	15.38	245	91	0.01	0.153753	20.66	1.209	0,492	1.701	1,709	1.096
15.39	15.40	246	91	0.01	0.153963	20.66	1.214	0.492	1.705	1.714	1.098
15.41	15.43	246	91	0.01	0.154253	20.67	1.213	0.492	1.705	1.713	1.098
15.44	15.45	247	91	0.01	0.154473	20.67	1.218	0.492	1.710	1,718	1.101
15.46	15.48	247	91	0.01	0.154753	20.68	1.218	0.492	1.709	1.718	1.100
15,49	15.50	248	90	0.01	0.155044	20.69	1.222	0.494	1.716	1.722	1.105
15.52	15.53	249	90	0.01	0.155264	20.69	1.227	0,494	1.721	1.727	1.108
15.54	15.55	249	91	0.01	0.155544	20.70	1.226	0.492	1.718	1.726	1.105
15.57	15.58	249	90	0.01	0.155764	20.70	1.226	0,494	1.720	1.726	1.107
15.59	15.61	250	90	0.01	0.156054	20.71	1.230	0.494	1.725	1.730	1.110
15.62	15.63	250	90	0.01	0.156265	20.72	1.230	0.494	1.725	1.730	1.109
15.64	15.66	250	90	0.01	0.156555	20.72	1.230	0.494	1.724	1,730	1.109
15.67	15.68	251	90	0.01	0.156845	20.73	1.234	0.494	1.729	1.734	1.112
15.69	15.71	251	90	0.01	0.157055	20.74	1.234	0.494	1.728	1,734	1.111
15.72	15.73	252	90	0.01	0.157275	20.74	1.238	0.494	1.733	1.738	1.114
15.74	15.76	252	90	0.01	0.157556	20.75	1.238	0.494	1.732	1.738	1.113
15.77	15.78	253	90	0.00	0.157846	20.76	1.243	0.497	1.740	1.743	1.118
15.80	15.81	253	90	0.00	0.158066	20.76	1.242	0.497	1.739	1.742	1.118
15.82	15.83	253	90	0.00	0.158346	20.77	1.242	0.497	1.739	1.742	1.118
15.85	15.86	254	90	0.00	0.158566	20.77	1.246	0.497	1.744	1.746	1.120
15.87	15.89	254	90	0.00	0.158856	20.78	1.246	0.497	1.743	1.746	1.120
15.90	15.91	254	90	0.00	0.159067	20.79	1.246	0.500	1.746	1.746	1.123
15.92	15.94	254	90	0.00	0.159357	20.79	1.245	0.497	1.742	1.745	1.120

	Deform.	Celda	Presión	Incremento		Åres	Esterno	1'3	a'1	:1	Erfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Derviedor	Efectivo	Efectivo	Total	Promedio
(mm)		N	(kPa)	(kg!/cm')	Uniteria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kat/cm²)	(kgl/cm <sup>2</sup> )
15.95	15.96	254	90	0.00	0.159647	20.80	1.245	0.500	1.745	1.745	1.122
15.97	15.99	254	90	0.00	0.159857	20.81	1.244	0.500	1.744	1.744	1.122
16.00	16.01	254	90	0.00	0.160077	20.81	1.244	0.500	1.744	1.744	1.122
16.03	16.04	254	90	0.00	0.160368	20.82	1.244	0.500	1.744	1.744	1.122
16.05	16.06	254	90	0.00	0.160578	20.82	1.243	0.500	1.743	1.743	1.122
16.08	16.09	254	90	0.00	0.160858	20.83	1.243	0.500	1.743	1.743	1.121
16.10	16.12	254	90	0.00	0.161158	20.84	1.243	0.500	1.743	1.743	1.121
16.13	16.14	254	90	0.00	0.161438	20.85	1.242	0.500	1.742	1.742	1.121
16.15	16.17	254	90	0.00	0.161659	20.85	1.242	0.500	1.742	1.742	1.121
16.18	16.19	254	90	0.00	0.161949	20.86	1.241	0.500	1.741	1.741	1.121
16.20	16.22	255	89	0.00	0.162159	20.86	1.246	0.503	1.749	1.746	1.126
16.23	16.24	255	89	0.00	0.162379	20.87	1.246	0.503	1.748	1.746	1.126
16.25	16.27	255	89	0.00	0.162659	20.88	1.245	0.503	1.748	1.745	1.125
16.28	16.29	256	89	0.00	0.162879	20.88	1.250	0.503	1.753	1.750	1.128
16.31	16.32	256	89	0.00	0.163170	20.89	1.249	0.503	1.752	1.749	1.127
16.33	16.34	256	89	0.00	0.163380	20.89	1.249	0.503	1.752	1.749	1.127
16.36	16.37	256	89	0.00	0.163670	20.90	1.249	0.503	1.751	1.749	1.127
16.38	16.40	256	89	0.00	0.163960	20.91	1.248	0.503	1.751	1.748	1.127
16.41	16.42	256	89	0.00	0.164170	20.91	1.248	0.503	1.751	1.748	1.127
16.43	16.45	255	89	0.00	0.164461	20.92	1.243	0.503	1.745	1.743	1.124
16.46	16.47	256	89	0.00	0.164681	20.93	1.247	0.503	1.750	1.747	1.126
16.48	16.50	255	89	-0.01	0.164961	20.93	1.242	0.506	1.747	1.742	1.126
16.51	16.53	255	89	-0.01	0.165251	20.94	1.241	0.506	1.747	1.741	1.126
16.54	16.55	255	89	0.00	0.165471	20.95	1.241	0.503	1.744	1.741	1.123
16.56	16.57	255	89	-0.01	0.165681	20.95	1.241	0.506	1.746	1.741	1.126
16.59	16.60	255	89	-0.01	0.165972	20.96	1.240	0.506	1.746	1.740	1.126
16.61	16.62	255	89	-0.01	0.166182	20.96	1.240	0.506	1.746	1.740	1.126
16.64	16.65	255	89	-0.01	0.166472	20.97	1.240	0.506	1.745	1.740	1.125
16.66	16.67	255	89	-0.01	0.166692	20.98	1.239	0.506	1.745	1.739	1.125
16.69	16.70	255	89	-0.01	0.166972	20.98	1.239	0.506	1.744	1.739	1.125
16.71	16.72	255	89	-0.01	0.167193	20.99	1.238	0.508	1.747	1.738	1.128
16.74	16.75	255	89	-0.01	0.167483	21.00	1.238	0.506	1.744	1.738	1.125
16.76	16.77	254	89	-0.01	0.167693	21.00	1.233	0.506	1.738	1.733	1.122
16.78	16.79	255	89	-0.01	0.167913	21.01	1.237	0.506	1.743	1.737	1.124
16.81	16.82	254	89	-0.01	0.168193	21.01	1.232	0.508	1.740	1.732	1.124
16.83	16.84	255	89	-0.01	0.168414	21.02	1.237	0.508	1.745	1.737	1.127
16.85	16.86	255	89	-0.01	0.168634	21.03	1.236	0.508	1.745	1.736	1.127
16.88	16.89	255	89	-0.01	0.168914	21.03	1.236	0.508	1.744	1.736	1.126
16.90	16.91	255	89	-0.01	0.169134	21.04	1.236	0.508	1.744	1.736	1.126
16.92	16.93	254	89	-0.01	0.169344	21.04	1.230	0.508	1.739	1.730	1.124
16.95	16.96	254	89	-0.01	0.169634	21.05	1.230	0.508	1.738	1.730	1.123
16.97	16.99	254	89	-0.01	0.169855	21.06	1.230	0.511	1.741	1.730	1.126
17.00	17.01	254	89	-0.01	0.170135	21.06	1.229	0.511	1.740	1.729	1.126
17.02	17.04	254	89	-0.01	0.170355	21.07	1.229	0.511	1.740	1.729	1.126
17.05	17.06	253	89	-0.01	0.170645	21.08	1.224	0.511	1.735	1.724	1.123
17.07	17.09	253	89	-0.01	0.170855	21.08	1.223	0.511	1.734	1.723	1.123
17.10	17.11	253	89	-0.01	0.171146	21.09	1.223	0.511	1.734	1.723	1.123
17.12	17.14	253	89	-0.01	0.171366	21.09	1.223	0.511	1.734	1.723	1.122
17.15	17.16	253	89	-0.01	0.171576	21.10	1.222	0.511	1.733	1.722	1.122
17.17	17.19	253	89	-0.01	0.171866	21.11	1.222	0.511	1.733	1.722	1.122
17.20	17.21	252	88	-0.01	0.172076	21.11	1.217	0.514	1.731	1.717	1.122
17.22	17.24	252	88	-0.01	0.172366	21.12	1.216	0.514	1.730	1.716	1.122

	Deform.	Celda	Presión	Incremento		Årea	Erfuerzo	13	11	:1	Enfuerco
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Derviedor	Electivo	Electivo	Total	Promedio
(mm)	56	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(lat/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
17.25	17.26	252	88	-0.01	0.172587	21.13	1 216	0.514	1 730	1 716	1 122
17.27	17.29	252	88	-0.01	0 172867	21.13	1 216	0.514	1729	1 716	1 1 2 2
17.30	17.31	252	88	-0.01	0.173087	21.14	1 215	0.514	1729	1 715	1 122
17.33	17.34	252	88	-0.01	0.173377	21.15	1 215	0.514	1729	1 715	1 121
17.95	17.94	353	99	-0.01	0.172597	31.15	1.314	0.514	1 7 2 9	1 714	1 1 2 1
17.38	17.39	252	88	-0.01	0.173878	21.16	1 214	0.514	1 728	1 714	1 1 2 1
17.40	17.41	251	88	-0.01	0.174088	21.16	1 209	0.514	1 723	1 209	1 118
17.49	17.44	353	99	-0.01	0.174979	31.17	1 313	0.514	1 7 7 7	1 712	1 1 2 1
17.45	17.44	353	99	-0.01	0.174070	21.12	1 212	0.514	1 7 27	1 712	1.121
17.40	47.40	35.4	00	-0.01	0.174070	34.40	1 300	0.517	4,700	1 700	4.454
17.40	17,40	101	00	-0.02	0.175062	21.10	1.200	0.517	1.723	1 202	1.121
17.50	17.51	251	99	-0.02	0.175289	21.15	1.207	0.517	1.7.04	1 307	1.120
13.55	47.04	201	00	0.04	0.133300	24.20	4,007	0.544	4,724	4,707	4.447
17.50	17.50	251	00	-0.01	0.175099	21.20	1.207	0.514	1.721	1,707	1.117
17.50	17.33	221	00	-0.02	0.173003	24.22	1.200	0.517	1.723	1.700	1.120
17.60	17.51	250	00	-0.02	0.176109	21.22	1.201	0.517	1.710	1.701	1.117
17.63	17.64	251	88	-0.02	0.176389	21.22	1.205	0.517	1.722	1.706	1.120
17.65	17.00	250	00	-0.02	0.170010	11.15	1.200	0.517	1./1/	1.00	1.11/
17.58	17.69	250	88	-0.02	0.176900	21.24	1.200	0.517	1.717	1.700	1.117
17.70	17.71	250	88	-0.02	0.177110	21.24	1.200	0.517	1.716	1.700	1.117
17.73	17.74	250	88	-0.02	0.177400	21.25	1.199	0.517	1./16	1.699	1.116
17.75	17.76	250	88	-0.02	0.177610	21.25	1.199	0.517	1.716	1.699	1.116
17.78	17.79	250	88	-0.02	0.177900	21.26	1.199	0.520	1.718	1.699	1.119
17.80	17.81	250	88	-0.02	0.178121	21.27	1.198	0.517	1.715	1.698	1.116
17.83	17.84	250	88	-0.02	0.178401	21.28	1.198	0.517	1.715	1.698	1.116
17.85	17.86	249	88	-0.02	0.178621	21.28	1.193	0.517	1.709	1.693	1.113
17.88	17.89	250	88	-0.02	0.178911	21.29	1.197	0.517	1.714	1.697	1.115
17.91	17.92	250	88	-0.02	0.179191	21.30	1.197	0.520	1.716	1.697	1.118
17.93	17.94	251	88	-0.02	0.179412	21.30	1.201	0.520	1.721	1.701	1.120
17.95	17.96	252	88	-0.02	0.179632	21.31	1.206	0.520	1.725	1,706	1.122
17.98	17.99	253	88	-0.02	0.179912	21.31	1.210	0.520	1.729	1.710	1.124
18.00	18.01	254	88	-0.02	0.180132	21.32	1.214	0.520	1.734	1.714	1.127
18.03	18.04	254	88	-0.02	0.180422	21.33	1.214	0.520	1.734	1.714	1.127
18.04	18.06	256	88	-0.02	0.180562	21.33	1.223	0.520	1.743	1.723	1.131
18.08	18.09	256	88	-0.02	0.180923	21.34	1.223	0.522	1.745	1.723	1.134
18.10	18.11	257	88	-0.02	0.181133	21.35	1.227	0.520	1.747	1.727	1.133
18.12	18.14	257	88	-0.02	0.181353	21.35	1.227	0.520	1.746	1.727	1.133
18.15	18.16	257	88	-0.02	0.181643	21.36	1.227	0.522	1.749	1.727	1.136
18.18	18.19	257	88	-0.02	0.181923	21.37	1.226	0.520	1.746	1.726	1.133
18.20	18.21	257	88	-0.02	0.182144	21.37	1.226	0.522	1.748	1.726	1.135
18.23	18.24	258	88	-0.02	0.182434	21.38	1.230	0.522	1.752	1.730	1.137
18.26	18.27	258	88	-0.02	0.182714	21.39	1.230	0.522	1.752	1,730	1.137
18.28	18.29	258	88	-0.02	0.182934	21.39	1.229	0.522	1.752	1,729	1.137
18.31	18.32	259	88	-0.02	0.183224	21.40	1.234	0.522	1,756	1.734	1.139
18.33	18.34	258	88	-0.02	0.183435	21.41	1,229	0.522	1,751	1,729	1,137
18.36	18.37	259	88	-0.02	0.183725	21.41	1.233	0.522	1.755	1.733	1.139
18.39	18.40	259	88	-0.02	0.184015	21.42	1,232	0.522	1,755	1,732	1,139
18.42	18.43	259	87	-0.03	0.184295	21.43	1,232	0.525	1,757	1,732	1,141
18.43	18.44	260	88	-0.02	0.184445	21.43	1.237	0.522	1,759	1.737	1.141
18.44	18.47	35.0	89	.002	0.184735	21.44	1 391	0.523	1 754	1 791	1 199
18.49	18.50	260	87	-0.02	0.185016	21.45	1 236	0.525	1.761	1 796	1 143
19 51	18.50	361	97	-0.02	0.195334	31.45	1 340	0.535	1 705	1 740	1 1 1 2 5
18 53	18.54	261	87	-0.03	0.185446	21.45	1.240	0.535	1.765	1 740	1 145
the backware of		10.00	1975	10000			dead The	Second Street	4.47952	100 C 100 C	

	Deform.	Celda	Presión	Incremento		Area	Lifuero -	13	a'1	11	Erfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregide	Dervindor	Efectivo	Efectivo	Total	Promedio
(mm)	8	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>*</sup> )	(lat/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
18.56	18.57	261	87	-0.03	0.185736	21.47	1.239	0.525	1.764	1,739	1.145
18.58	18.60	261	87	-0.03	0.185956	21.47	1.239	0.525	1.764	1.739	1.145
18.60	18.62	261	87	-0.03	0.186167	21.48	1.239	0.528	1.767	1.739	1.147
18.63	18.65	261	87	-0.03	0.186457	21.49	1.238	0.528	1.766	1.738	1.147
18.65	18.67	261	87	-0.03	0.186667	21.49	1.238	0.525	1.763	1.738	1.144
18.68	18.70	262	87	-0.03	0.186957	21.50	1.242	0.528	1.770	1.742	1.149
18.70	18.72	262	87	-0.03	0.187177	21.51	1.242	0.525	1.767	1.742	1.146
18.73	18.75	262	87	-0.03	0.187457	21.51	1.241	0.528	1.769	1.741	1.149
18.75	18.77	263	87	-0.03	0.187678	21.52	1.246	0.528	1.774	1.746	1.151
18.78	18.80	263	87	-0.03	0.187968	21.53	1.245	0.528	1.773	1.745	1.151
18.81	18.83	263	87	-0.03	0.188258	21.53	1.245	0.528	1.773	1.745	1.150
18.83	18.85	262	87	-0.03	0.188468	21.54	1.240	0.528	1.768	1.740	1.148
18.86	18.88	262	87	-0.03	0.188758	21.55	1.239	0.528	1.767	1.739	1.148
18.88	18.90	262	87	-0.03	0.188969	21.55	1.239	0.531	1.770	1.739	1.150
18.91	18.93	262	87	-0.03	0.189259	21.56	1.239	0.528	1.767	1.739	1.147
18.94	18.95	261	87	-0.03	0.189549	21.57	1.234	0.531	1.764	1.734	1.147
18.96	18.98	261	87	-0.03	0.189759	21.57	1.233	0.531	1.764	1.733	1.147
18.99	19.00	260	87	-0.03	0.190049	21.58	1.228	0.531	1.759	1.728	1.145
19.02	19.03	260	87	-0.03	0.190340	21.59	1.228	0.531	1.758	1.728	1.144
19.04	19.05	260	87	-0.03	0.190550	21.59	1.227	0.531	1.758	1.727	1.144
19.07	19.08	259	87	-0.03	0.190840	21.60	1.222	0.531	1.753	1.722	1.142
19.09	19.11	259	87	-0.03	0.191060	21.61	1.222	0.531	1.752	1.722	1.142
19.12	19.13	259	87	-0.03	0.191340	21.62	1.221	0.531	1.752	1.721	1.141
19.14	19.16	259	87	-0.03	0.191560	21.62	1.221	0.531	1.752	1.721	1.141
19.17	19.19	259	87	-0.03	0.191851	21.63	1.221	0.531	1.751	1.721	1.141
19.19	19.21	259	86	-0.03	0.192061	21.64	1.220	0.533	1.754	1.720	1.144
19.22	19.24	259	86	-0.03	0.192351	21.64	1.220	0.533	1.753	1.720	1.143
19.24	19.26	259	86	-0.03	0.192561	21.65	1.220	0.533	1.753	1.720	1.143
19.27	19.29	258	86	-0.03	0.192851	21.66	1.214	0.533	1.748	1.714	1.141
19.29	19.31	258	86	-0.03	0.193072	21.66	1.214	0.533	1.748	1.714	1.140
19.32	19.34	257	86	-0.03	0.193352	21.67	1.209	0.533	1.742	1,709	1.138
19.34	19.36	257	86	-0.04	0.193572	21.68	1.209	0.536	1.745	1,709	1.141
19.37	19.39	256	86	-0.03	0.193862	21.68	1.203	0.533	1.737	1,703	1.135
19.39	19.41	255	86	-0.03	0.194072	21.69	1.198	0.533	1.732	1.698	1.133
19.42	19.43	255	86	-0.04	0.194292	21.69	1.198	0.536	1.734	1.698	1.135
19.44	19.46	254	86	-0.04	0.194583	21.70	1.193	0.536	1.729	1.693	1.133
19.47	19.48	254	86	-0.03	0.194793	21.71	1.193	0.533	1.726	1.693	1.130
19.49	19.51	254	86	-0.04	0.195083	21.72	1.192	0.536	1.729	1.692	1.132
19.52	19.53	253	86	-0.04	0.195293	21.72	1.187	0.536	1.724	1.687	1.130
19.54	19.56	253	86	-0.04	0.195583	21.73	1.187	0.536	1.723	1.687	1.130
19.57	19.59	252	86	-0.04	0.195874	21.74	1.182	0.536	1.718	1.682	1.127
19.59	19.61	252	86	-0.04	0.196084	21.74	1.181	0.536	1.718	1.681	1.127
19.62	19.63	252	86	-0.04	0.196304	21.75	1.181	0.539	1.720	1.681	1.130
19.65	19.66	252	86	-0.04	0.196594	21.76	1.181	0.539	1.720	1.681	1.129
19.67	19.68	251	86	-0.04	0.196804	21.76	1.176	0.539	1.715	1.676	1.127
19.70	19.71	250	86	-0.04	0.197095	21.77	1.171	0.539	1.710	1.671	1.124
19.72	19.73	250	86	-0.04	0.197315	21.78	1.170	0.539	1.709	1.670	1.124
19.75	19.76	249	86	-0.04	0.197595	21.78	1.165	0.539	1.704	1.665	1.122
19.77	19.78	249	86	-0.04	0.197815	21.79	1.165	0.539	1.704	1.665	1.121
19.80	19.81	248	86	-0.04	0.198105	21.80	1.160	0.539	1.699	1.660	1.119
19.82	19.83	247	86	-0.04	0.198315	21.80	1.155	0.539	1.694	1.655	1.116
19.84	19.85	247	86	-0.04	0.198536	21.81	1.154	0.539	1.693	1.654	1.116

	Delarm	Calda	Presiden	Incremento		Åren	Enforme	a 13	a'1	=1	Erfuerzo
Deformación	Uniteria	Cargo	de poros	deportos	Deform.	Correction	Dervindor	Electivo	Electivo	Total	Promedio
(mm)	5	N	(kPa)	(ket/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kuf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(ket/cm <sup>2</sup> )
19.87	19.88	247	86	-0.04	0.198816	21.82	1.154	0.542	1.696	1.654	1 119
19.90	19.91	247	86	-0.04	0.199106	21.83	1.154	0.539	1.693	1.654	1.116
19.91	19.92	248	86	-0.04	0.199246	21.83	1.158	0.542	1,700	1,658	1.121
19.94	19.95	248	86	-0.04	0.199536	21.84	1.158	0.542	1.699	1.658	1.121
19.96	19.98	248	86	-0.04	0.199756	21.84	1.157	0.542	1.699	1.657	1.120
19.99	20.00	249	86	-0.04	0.200037	21.85	1.162	0.542	1.703	1.662	1.123
20.01	20.03	249	86	-0.04	0.200257	21.86	1.161	0.542	1.703	1.661	1.122
20.03	20.05	249	86	-0.04	0.200477	21.86	1.161	0.542	1.703	1.661	1.122
				Etapa	de falla seg	undo incre	mento				
Deformación	Deform.	Celda	Presión	Incremento	Deferm	Årea	Estuerzo	s'3	a'1	:1	Enfuerzo
(mm)	Unitaria	Cargo	de poros	deporos	Unitaria	Corregida	Desvindor	Electivo	Electivo	Total	Promedio
1	8	N	(kPa)	(kgt/cm <sup>*</sup> )		(cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm*)	(lqt/cm²)	(kgt/cm <sup>2</sup> )
0.00	0.00	0	99	0.00	0.0000000	17.76	0.000	1.000	1.000	1.000	1.000
0.03	0.03	27	99	0.01	0.000293	17.76	0.155	0.992	1.147	1.155	1.069
0.04	0.04	47	100	0.01	0.000435	17.76	0.270	0.986	1.256	1.270	1.121
0.07	0.07	66	101	0.02	0.000728	17.77	0.379	0.978	1.356	1.379	1.167
0.09	0.10	84	101	0.03	0.000951	17.77	0.482	0.972	1.454	1.482	1.213
0.12	0.12	100	102	0.04	0.001163	17.78	0.573	0.964	1.537	1.573	1.250
0.14	0.14	114	103	0.04	0.001386	17.78	0.654	0.955	1.609	1.654	1.282
0.16	0.16	126	104	0.05	0.001598	17.78	0.722	0.947	1.669	1.722	1.308
0.18	0.18	137	105	0.06	0.001821	17.79	0.785	0.941	1.727	1.785	1.334
0.21	0.21	147	105	0.07	0.002114	17.79	0.842	0.930	1.772	1.842	1.351
0.23	0.23	155	106	0.08	0.002327	17.80	0.888	0.925	1.813	1.888	1.369
0.25	0.25	162	107	0.08	0.002550	17.80	0.928	0.916	1.844	1.928	1.380
0.28	0.28	168	108	0.09	0.002833	17.81	0.962	0.905	1.867	1.962	1.385
0.30	0.31	172	109	0.10	0.003055	17.81	0.984	0.900	1.884	1.984	1.392
0.32	0.33	1//	110	0.11	0.003278	17.81	1.013	0.891	1.904	2.013	1.398
0.35	0.35	101	100	0.11	0.003490	17.02	1.035	0.000	1.921	2.035	1.405
0.37	0.38	185	111	0.12	0.003784	17.82	1.058	0.880	1.958	2.058	1.409
0.40	0.41	188	111	0.13	0.004077	17.83	1.075	0.872	1.947	2.0/5	1.409
0.42	0.43	192	112	0.13	0.004290	17.83	1.098	0.865	1.964	2.098	1.415
0.45	0.45	195	113	0.14	0.004512	17.84	1.120	0.851	1.981	2.120	1.421
0.47	0.40	200	113	0.15	0.004735	17.09	1.157	0.002	2,000	2.527	1.421
0.50	0.50	203	115	0.15	0.005018	17.65	1.100	0.841	2.005	2 176	1.429
0.55	0.55	200	115	0.16	0.005538	17.00	1 100	0.092	2,020	3 563	1.423
0.55	0.55	200	115	0.10	0.005917	17.00	1.133	0.000	2.029	2.133	1.402
0.50	0.60	214	116	0.17	0.005040	17.86	1 221	0.837	2.048	2 221	1438
0.63	0.63	217	117	0.18	0.006323	17.87	1 238	0.819	2.057	2 238	1.438
0.65	0.65	220	117	0.19	0.006546	17.87	1.255	0.813	2.068	2 255	1.441
0.67	0.68	223	118	0.19	0.006758	17.88	1.272	0.810	2.082	2.272	1.446
0.70	0.71	225	118	0.20	0.007052	17.88	1.283	0.805	2.087	2.283	1.446
0.72	0.73	228	119	0.20	0.007274	17.89	1.299	0.799	2.099	2.299	1,449
0.75	0.76	231	119	0.21	0.007557	17.89	1.316	0.794	2.110	2,316	1.452
0.77	0.78	233	120	0.21	0.007780	17.90	1.327	0.791	2.118	2.327	1.455
0.79	0.80	236	120	0.21	0.007992	17.90	1.344	0.785	2.129	2.344	1.457
0.82	0.83	239	121	0.22	0.008286	17.90	1.361	0.780	2.141	2.361	1.460
0.84	0.85	241	121	0.22	0.008508	17.91	1.372	0.777	2.149	2.372	1.463
0.87	0.88	243	122	0.23	0.008792	17.91	1.383	0.771	2.154	2.383	1.463
0.90	0.91	245	122	0.23	0.009085	17.92	1.394	0.766	2.160	2.394	1.463
0.92	0.93	247	122	0.24	0.009308	17.92	1.405	0.763	2.168	2.405	1.465

	Deform.	Celda	Presiden	Incremento		Area	Latuenco	13	- 61	=1	Erfuerzo
Deformación	Unitaria	Cargo	de poros	deportos	Beform.	Correction	Dervindor	Electivo	Electivo	Total	Promedio
(mm)	- 56	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(log1/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
0.94	0.95	250	123	0.24	0.009520	17.93	1.422	0.758	2.179	2.422	1.468
0.96	0.97	252	123	0.25	0.009743	17.93	1.433	0.755	2.187	2.433	1.471
0.99	1.00	254	124	0.25	0.010036	17.94	1.444	0.749	2.193	2.444	1.471
1.01	1.02	257	124	0.25	0.010249	17.94	1.460	0.746	2.207	2.460	1.477
1.04	1.05	259	125	0.26	0.010542	17.95	1.471	0.741	2,212	2.471	1,476
1.05	1.08	260	125	0.26	0.010754	17.95	1.477	0.741	2.217	2.477	1.479
1.09	1.10	262	125	0.27	0.010977	17.95	1.488	0.732	2.220	2.488	1.476
1.11	1.13	264	126	0.27	0.011270	17.96	1.498	0.730	2.228	2.498	1.479
1.14	1.15	265	126	0.27	0.011483	17.96	1.504	0.727	2.231	2.504	1,479
1.16	1.17	268	126	0.28	0.011705	17.97	1.521	0.724	2.245	2,521	1.484
1.18	1.19	270	127	0.28	0.011918	17.97	1.532	0.721	2.253	2.532	1.487
1.21	1.22	272	127	0.28	0.012211	17.98	1.542	0.716	2.258	2.542	1.487
1.23	1.24	274	127	0.29	0.012434	17.98	1.553	0.713	2.266	2,553	1,490
1.26	1.27	276	128	0.29	0.012717	17.99	1.564	0.707	2.272	2.564	1,490
1.29	1.30	278	128	0.30	0.013011	17.99	1.575	0.705	2,280	2.575	1,492
1.31	1.32	280	128	0.30	0.013233	17.99	1.586	0.702	2.288	2.586	1.495
1.33	1.34	282	129	0.30	0.013446	18.00	1.597	0.699	2.296	2.597	1,498
1.36	1.37	284	129	0.30	0.013739	18.00	1.608	0.696	2.304	2.608	1,500
1.38	1.40	286	130	0.31	0.013951	18.01	1.619	0.691	2.310	2.619	1.500
1.41	1.42	288	130	0.31	0.014245	18.01	1.630	0.691	2.320	2.630	1.506
1.43	1.45	290	130	0.31	0.014467	18.02	1.641	0.688	2.329	2.641	1.508
1.46	1.48	292	130	0.32	0.014751	18.02	1.652	0.682	2.334	2.652	1.508
1.48	1.50	294	131	0.32	0.014973	18.03	1.663	0.679	2.342	2.663	1.511
1.51	1.53	296	131	0.32	0.015267	18.03	1.673	0.677	2.350	2.673	1.513
1.53	1.55	298	131	0.33	0.015479	18.04	1.684	0.674	2.358	2.684	1.516
1.55	1.57	301	132	0.33	0.015702	18.04	1.701	0.671	2.372	2,701	1.522
1.58	1.60	303	132	0.33	0.015995	18.05	1.712	0.671	2.383	2.712	1.527
1.60	1.62	305	132	0.33	0.016208	18.05	1.723	0.668	2.391	2,723	1.530
1.63	1.65	307	132	0.33	0.016501	18.05	1.733	0.666	2.399	2.733	1.532
1.66	1.68	309	132	0.34	0.016794	18.06	1.744	0.663	2.407	2.744	1.535
1.68	1.70	311	133	0.34	0.017007	18.05	1.755	0.660	2,415	2,755	1.537
1.70	1.72	313	133	0.34	0.017229	18.07	1.766	0.657	2.423	2.766	1.540
1.73	1.75	314	133	0.35	0.017513	18.07	1.771	0.654	2.425	2,771	1.540
1.76	1.78	315	134	0.35	0.017806	18.08	1.776	0.652	2,428	2,776	1.540
1.78	1.80	317	134	0.35	0.018029	18.08	1.787	0.649	2,436	2.787	1.542
1.81	1.83	318	134	0.35	0.018312	18.09	1.792	0.646	2,438	2,792	1.542
1.83	1.85	321	134	0.35	0.018535	18.09	1.809	0.646	2,455	2.809	1.550
1.86	1.88	322	134	0.36	0.018828	18.10	1.814	0.643	2,457	2.814	1.550
1.88	1.90	324	135	0.36	0.019040	18.10	1.825	0.640	2.465	2.825	1.553
1.91	1.93	326	135	0.36	0.019834	18.11	1.835	0.640	2.476	2.835	1.558
1.93	1.96	327	135	0.36	0.019556	18.11	1.841	0.638	2.478	2.841	1.558
1.96	1.98	329	135	0.37	0.019840	18.12	1.851	0.635	2.486	2.851	1.561
1.98	2.01	330	135	0.37	0.020062	18.12	1.856	0.632	2.489	2.856	1.560
2.01	2.04	331	135	0.37	0.020356	18.13	1.862	0.632	2,494	2.862	1.563
2.03	2.06	332	136	0.37	0.020568	18.13	1.867	0.629	2.496	2.867	1.563
2.06	2.08	333	136	0.37	0.020791	18.13	1.872	0.629	2.501	2.872	1.565
2.08	2.10	335	136	0.37	0.021003	18.14	1.883	0.627	2.509	2.883	1.568
2.11	2.13	335	136	0.38	0.021296	18.14	1.882	0.624	2.506	2.882	1.565
2.13	2.15	336	136	0.38	0.021509	18.15	1.887	0.624	2.511	2.887	1.567
2.16	2.18	338	136	0.38	0.021802	18.15	1.898	0.624	2.522	2.898	1.573
2.18	2.20	338	137	0.38	0.022025	18.16	1.898	0.621	2.519	2.898	1.570
2.20	2.22	339	137	0.38	0.022237	18.16	1.903	0.618	2.521	2.903	1.570

	Deform.	Celda	Presiden	Incremento		Åres	Eriverto	13	11	:1	Erfuerzo
Deformación	Unitaria	Carga	de poros	deportos	Deform.	Correction	Dervindor	Electivo	Electivo	Total	Promedio
(mm)		N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kg(/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(hgt/cm <sup>2</sup> )
2.23	2.25	340	137	0.38	0.022531	18.17	1,908	0.618	2.526	2,908	1.572
2.25	2.28	341	137	0.38	0.022753	18.17	1.913	0.615	2.528	2.913	1.572
2.28	2.30	342	197	0.38	0.023037	18.18	1.918	0.615	2.534	2.918	1 574
2.31	2.33	343	137	0.39	0.023330	18.18	1.923	0.613	2.536	2.923	1.574
2.88	2.36	848	197	0.39	0.023553	18.18	1 923	0.613	2 5 8 5	2 923	1 574
2.36	2.38	344	138	0.39	0.023836	18.19	1.928	0.610	2.538	2.928	1.574
2.38	2.41	345	138	0.39	0.024058	18.19	1.933	0.610	2.543	2.933	1.576
2.41	2.44	346	138	0.39	0.024352	18.20	1.938	0.607	2.545	2.938	1.576
2.43	2.46	346	138	0.39	0.024564	18.20	1.938	0.607	2.545	2,938	1.576
2.46	2,49	346	138	0.39	0.024858	18.21	1,937	0.607	2.544	2.937	1.575
2.48	2.51	347	138	0.40	0.025070	18.21	1.942	0.604	2.546	2.942	1.575
2.51	2.54	348	139	0.40	0.025364	18.22	1.947	0.601	2.549	2.947	1.575
2.54	2.57	348	139	0.40	0.025657	18.22	1.947	0.601	2.548	2.947	1.575
2.56	2.59	349	139	0.40	0.025869	18.23	1.952	0.601	2.553	2.952	1.577
2.59	2.62	350	139	0.40	0.026163	18.23	1.957	0.599	2,555	2.957	1.577
2.61	2.64	350	139	0.40	0.026385	18.24	1.956	0.599	2.555	2.956	1.577
2.64	2.67	351	139	0.40	0.026669	18.24	1.961	0.599	2.560	2.961	1.579
2.67	2.70	351	139	0.40	0.026962	18.25	1.961	0.599	2.559	2.961	1.579
2.69	2.72	353	139	0.40	0.027185	18.25	1.971	0.596	2.567	2.971	1.582
2.71	2.74	353	139	0.40	0.027397	18.25	1.971	0.596	2.567	2.971	1.581
2.74	2.77	353	139	0.41	0.027690	18.25	1.970	0.593	2.563	2.970	1.578
2.76	2.79	354	139	0.41	0.027913	18.27	1.976	0.593	2.569	2.976	1.581
2.79	2.82	355	139	0.41	0.028196	18.27	1.981	0.593	2.574	2.981	1.583
2.81	2.84	356	139	0.41	0.028419	18.28	1.986	0.593	2.579	2.986	1.586
2.83	2.86	357	139	0.41	0.028631	18.28	1.991	0.593	2.584	2.991	1.588
2.86	2.89	357	140	0.41	0.028925	18.29	1,990	0.590	2.580	2,990	1.585
2.89	2.92	359	140	0.41	0.029218	18.29	2.001	0.590	2.591	3.001	1.591
2.91	2.94	360	140	0.41	0.029431	18.29	2.006	0.590	2.596	3.006	1.593
2.94	2.97	361	140	0.41	0.029724	18.30	2.011	0.590	2.601	3.011	1.596
2.96	2.99	362	140	0.41	0.029947	18.30	2.016	0.590	2.606	3.016	1.598
2.98	3.02	363	140	0.41	0.030159	18.31	2.021	0.588	2.609	3.021	1.598
3.01	3.05	365	140	0.41	0.030452	18.31	2.032	0.588	2.619	3.032	1.603
3.03	3.07	365	140	0.41	0.030675	18.32	2.031	0.588	2.619	3.031	1.603
3.06	3.10	367	140	0.41	0.030958	18.32	2.042	0.588	2.629	3.042	1.608
3.08	3.12	368	140	0.41	0.031181	18.33	2.047	0.588	2.634	3.047	1.611
3.11	3.15	369	140	0.42	0.031474	18.33	2.052	0.585	2.636	3.052	1.611
3.14	3.18	370	140	0.41	0.031758	18.34	2.057	0.588	2.644	3.057	1.616
3.16	3.20	371	140	0.41	0.031980	18.34	2.062	0.588	2.649	3.062	1.618
3.20	3.23	373	140	0.42	0.032344	18.35	2.072	0.585	2.657	3.072	1.621
3.21	3.25	373	140	0.42	0.032486	18.35	2.072	0.585	2.656	3.072	1.621
3.23	3.27	374	140	0.42	0.032709	18.36	2.077	0.585	2.662	3.077	1.623
3.25	3.29	375	140	0.42	0.032921	18.36	2.082	0.585	2.667	3.082	1.626
3.28	3.31	375	140	0.42	0.033144	18.37	2.081	0.585	2.666	3.081	1.625
3.30	3.34	376	140	0.42	0.033427	18.37	2.086	0.585	2.671	3.086	1.628
3.33	3.36	377	140	0.42	0.033649	18.37	2.091	0.585	2.676	3.091	1.630
3.35	3.39	378	140	0.42	0.033872	18.38	2.097	0.585	2.681	3.097	1.633
3.38	3.42	379	140	0.42	0.034155	18.38	2.101	0.585	2.686	3.101	1.635
3.40	3.44	379	140	0.42	0.034378	18.39	2.101	0.582	2.683	3.101	1.632
3.43	3.47	380	140	0.42	0.034671	18.39	2.106	0.585	2.691	3.106	1.638
3.45	3.49	380	140	0.42	0.034884	18.40	2.105	0.582	2.687	3.105	1.635
3.47	3.51	381	140	0.42	0.035106	18.40	2.110	0.585	2.695	3.110	1.640
3.50	3.54	382	140	0.42	0.035390	18.41	2.115	0.585	2.700	3.115	1.642

	Deform.	Celda	Presión	Incremento		Åres	Infuerto	13	a'1	11	Erfuerzo
Deformación	Unitaria	Cargo	de poros	deportos	Deform.	Correction	Dervision	Electivo	Electivo	Total	Promedio
(mm)	8	N	(kPa)	(kg!/cm <sup>*</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(logf/cm <sup>2</sup> )
3.53	3.57	383	140	0.42	0.035683	18.41	2.120	0.582	2.702	3.120	1.642
3.54	3.58	384	140	0.42	0.035835	18.42	2.125	0.585	2.710	3.125	1.647
3.57	3.61	385	140	0.42	0.036118	18.42	2.130	0.582	2.712	3.130	1.647
3.59	3.63	386	140	0.42	0.036341	18.43	2.135	0.582	2.717	3.135	1.650
3.61	3.66	387	140	0.42	0.036553	18.43	2.140	0.585	2.725	3.140	1.655
3.64	3.68	387	140	0.42	0.036846	18.44	2.140	0.585	2.725	3.140	1.655
3.66	3.71	388	140	0.42	0.037069	18.44	2.145	0.582	2.727	3.145	1.654
3.69	3.74	389	140	0.42	0.037352	18.45	2.150	0.585	2.734	3.150	1.660
3.71	3.76	390	140	0.42	0.037575	18.45	2.155	0.582	2.737	3.155	1.659
3.74	3.79	390	140	0.42	0.037858	18.46	2.154	0.582	2.736	3.154	1.659
3.77	3.82	390	140	0.42	0.038152	18.46	2.154	0.585	2.738	3.154	1.661
3.79	3.84	391	140	0.42	0.038374	18.47	2.159	0.585	2.743	3.159	1.664
3.82	3.87	391	140	0.42	0.038668	18.47	2.158	0.585	2.743	3.158	1.664
3.84	3.89	391	140	0.42	0.038880	18.47	2.157	0.582	2.739	3.157	1.661
3.87	3.92	391	140	0.42	0.039173	18.48	2.157	0.582	2.739	3.157	1.660
3.90	3.95	392	140	0.42	0.039467	18.49	2.162	0.585	2.746	3.162	1.666
3.92	3.97	393	140	0.42	0.039679	18.49	2.167	0.585	2.751	3.167	1.668
3.95	4.00	393	140	0.42	0.039973	18.50	2.166	0.585	2.751	3.166	1.668
3.97	4.02	394	140	0.42	0.040185	18.50	2.171	0.582	2.753	3.171	1.667
4.00	4.05	394	140	0.42	0.040478	18.51	2.170	0.585	2.755	3.170	1.670
4.02	4.07	394	140	0.42	0.040701	18.51	2.170	0.585	2.755	3.170	1.670
4.05	4.10	394	140	0.42	0.040994	18.52	2.169	0.585	2.754	3.169	1.669
4.08	4.13	395	140	0.42	0.041278	18.52	2.174	0.585	2.759	3.174	1.672
4.10	4.15	397	140	0.42	0.041500	18.53	2.185	0.585	2.769	3.185	1.677
4.13	4.18	398	140	0.41	0.041794	18.53	2.189	0.588	2.777	3.189	1.682
4.16	4.21	399	140	0.42	0.042077	18.54	2.194	0.585	2.779	3,194	1.682
4.19	4.24	400	140	0.42	0.042370	18.54	2.199	0.585	2.784	3.199	1.684
4.21	4.26	401	140	0.42	0.042593	18.55	2.204	0.585	2.789	3.204	1.687
4.24	4.29	402	140	0.41	0.042876	18.55	2.209	0.588	2.796	3.209	1.692
4.26	4.31	403	140	0.42	0.043099	18.56	2.214	0.585	2.799	3.214	1.692
4.29	4.34	404	140	0.41	0.043392	18.56	2.219	0.588	2.806	3.219	1.697
4.31	4.36	405	140	0.41	0.043605	18.57	2.224	0.588	2.811	3.224	1.699
4.34	4.39	406	140	0.41	0.043898	18.57	2.228	0.588	2.816	3.228	1.702
4.37	4.42	406	140	0.41	0.044191	18.58	2.228	0.590	2.818	3.228	1.704
4.39	4.44	407	140	0.41	0.044404	18.58	2.233	0.590	2.823	3.233	1.707
4.42	4.47	408	140	0.41	0.044697	18.59	2.238	0.590	2.828	3.238	1.709
4.44	4.49	409	140	0.41	0.044910	18.59	2.243	0.590	2.833	3.243	1.712
4.47	4.52	409	140	0.41	0.045203	18.60	2.242	0.590	2.832	3.242	1.711
4.50	4.55	410	140	0.41	0.045497	18.60	2.247	0.590	2.837	3.247	1.714
4.53	4.58	410	139	0.41	0.045790	18.61	2.246	0.593	2.839	3.246	1.716
4.55	4.60	411	140	0.41	0.046002	18.61	2.251	0.590	2.841	3.251	1.716
4.58	4.63	411	139	0.41	0.046296	18.62	2.250	0.593	2.843	3.250	1.718
4.60	4.65	412	139	0.41	0.046508	18.62	2.255	0.593	2.848	3.255	1.721
4.63	4.68	413	139	0.41	0.046802	18.63	2.260	0.593	2.853	3.260	1.723
4.65	4.70	413	139	0.41	0.047024	18.63	2.259	0.593	2.853	3.259	1.723
4.68	4.73	413	139	0.41	0.047308	18.64	2.259	0.593	2.852	3.259	1.722
4.70	4.75	414	139	0.40	0.047530	18.64	2.264	0.596	2.860	3.264	1.728
4.73	4.78	415	139	0.41	0.047823	18.65	2.269	0.593	2.862	3.269	1.727
4.76	4.81	415	139	0.40	0.048107	18.65	2.268	0.596	2.864	3.268	1.730
4.78	4.83	416	139	0.40	0.048329	18.66	2.273	0.595	2.869	3.273	1.732
4.81	4.86	417	139	0.40	0.048623	18.66	2.278	0.596	2.873	3.278	1.735
4.83	4.88	417	139	0.40	0.048835	18.67	2.277	0.596	2.873	3.277	1.734

	Deform.	Celda	Presión	Incremento		Åres	Lifuetto -	a'3	11	11	Erfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Dervision	Efectivo	Efectivo	Total	Promedio
(mm)	- 56	N	(kPa)	(kg!/cm*)	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm²)	(kgl/cm <sup>*</sup> )	(kgf/cm²)	(kgt/cm <sup>2</sup> )
4.86	4.91	417	139	0.40	0.049129	18.67	2.276	0.599	2.875	3.276	1.737
4.89	4.94	417	139	0.40	0.049422	18.68	2.276	0.599	2.874	3.276	1.736
4.91	4.96	418	139	0.40	0.049634	18.68	2.281	0.599	2.879	3.281	1.739
4.94	4.99	418	139	0.40	0.049928	18.69	2.280	0.599	2.879	3.280	1.739
4.96	5.02	418	139	0.40	0.050150	18.69	2.279	0.599	2.878	3.279	1.738
4.99	5.04	419	139	0.40	0.050434	18.70	2.284	0.599	2.883	3.284	1.741
5.01	5.07	419	139	0.40	0.050727	18.71	2.283	0.599	2.882	3.283	1.740
5.04	5.09	420	139	0.40	0.050950	18.71	2.288	0.601	2.890	3.288	1.746
5.06	5.12	420	139	0.40	0.051233	18.72	2.288	0.601	2.889	3.288	1.745
5.09	5.15	421	139	0.40	0.051456	18.72	2.293	0.601	2.894	3.293	1.748
5.12	5.17	421	139	0.40	0.051749	18.73	2.292	0.601	2.893	3.292	1.747
5.14	5.20	421	139	0.40	0.051961	18.73	2.291	0.601	2.893	3.291	1.747
5.17	5.23	421	139	0.40	0.052255	18.74	2.291	0.601	2.892	3.291	1.747
5.19	5.25	422	138	0.40	0.052467	18.74	2.296	0.604	2.900	3.296	1.752
5.22	5.28	422	138	0.40	0.052761	18.75	2.295	0.604	2.899	3.295	1.752
5.24	5.30	423	138	0.40	0.052983	18.75	2.300	0.604	2.904	3.300	1.754
5.27	5.33	423	138	0.40	0.053266	18.76	2.299	0.604	2.903	3.299	1.754
5.29	5.35	423	138	0.39	0.053489	18.76	2.298	0.607	2.906	3.298	1.756
5.32	5.38	423	138	0.39	0.053782	18.77	2.298	0.607	2.905	3.298	1.756
5.34	5.40	424	138	0.39	0.053995	18.77	2.303	0.607	2.910	3.303	1.758
5.37	5.43	424	138	0.39	0.054288	18.78	2.302	0.607	2.909	3.302	1.758
5.39	5.45	424	138	0.39	0.054511	18.78	2.301	0.610	2.911	3.301	1.761
5.41	5.47	425	138	0.39	0.054723	18.78	2.306	0.610	2.916	3.306	1.763
5.43	5.49	425	138	0.39	0.054946	18.79	2.306	0.610	2.916	3.306	1.763
5.46	5.52	426	138	0.39	0.055229	18.79	2.311	0.610	2.920	3.311	1.765
5.49	5.55	427	138	0.39	0.055523	18.80	2.315	0.610	2.925	3.315	1.767
5.51	5.57	427	138	0.39	0.055745	18.80	2.315	0.610	2.924	3.315	1.767
5.54	5.60	428	137	0.39	0.056028	18.81	2.319	0.613	2.932	3.319	1.772
5.56	5.63	428	137	0.39	0.056251	18.81	2.319	0.613	2.931	3.319	1.772
5.58	5.65	429	137	0.39	0.056463	18.82	2.324	0.613	2.936	3.324	1.774
5.61	5.68	429	137	0.39	0.056757	18.82	2.323	0.613	2.936	3.323	1.774
5.64	5.71	429	137	0.38	0.057050	18.83	2.322	0.615	2.938	3.322	1.777
5.66	5.73	430	137	0.38	0.057263	18.83	2.327	0.615	2.943	3.327	1.779
5.68	5.75	430	137	0.38	0.057485	18.84	2.327	0.615	2.942	3.327	1.779
5.71	5.78	431	137	0.38	0.057779	18.85	2.331	0.615	2.947	3.331	1.781
5.73	5.80	431	137	0.38	0.057991	18.85	2.331	0.618	2.949	3.331	1.784
5.75	5.82	432	137	0.38	0.058214	18.85	2.336	0.618	2.954	3.336	1.786
5.78	5.85	432	137	0.38	0.058507	18.86	2.335	0.618	2.953	3.335	1.786
5.80	5.87	433	137	0.38	0.058720	18.86	2.340	0.621	2.961	3.340	1.791
5.83	5.90	433	137	0.38	0.059013	18.87	2.339	0.621	2.960	3.339	1.791
5.85	5.92	434	137	0.38	0.059225	18.87	2.344	0.621	2.965	3.344	1.793
5.88	5.95	435	137	0.38	0.059519	18.88	2.349	0.621	2.970	3.349	1.795
5.91	5.97	435	136	0.38	0.059741	18.88	2.348	0.624	2.972	3.348	1.798
5.93	6.00	436	136	0.38	0.060025	18.89	2.353	0.624	2.977	3.353	1.800
5.55	6.02	4.55	135	0.38	0.060247	18.89	2.352	0.624	2.976	3.352	1.800
5.98	6.05	437	136	0.38	0.060541	18.90	2.357	0.624	2.981	3.357	1.802
6.01	6.08	437	135	0.38	0.060/53	18.90	2.356	0.624	2.980	3.356	1.802
6.03	6.10	438	130	0.3/	0.051047	10.31	2.301	0.027	2.368	3.361	1.007
6.06	6.13	458	135	0.37	0.061269	18.92	2.360	0.627	2.987	3.360	1.807
6.08	0.15	4.53	130	0.37	0.061482	10.32	2.303	0.627	2.392	2.383	1.609
6.11	6.18	439	135	0.37	0.061/75	18.95	2.365	0.629	2.394	3,365	1.812
0.13	0.40		1.30	0.37	0.001301	10.33	6.303	0.0.03	2.333	3,363	1.014

	Deform	Califa	Presiden	Incremento		Åren	Estuerzo	13	a'1	:1	Effuerzo
Deformación	Unitaria	Cargo	de poros	deportos	Deform.	Correcide	Derviedor	Electivo	Bectivo	Total	Promedio
(mm)	*	N	(kPa)	(ket/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kat/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(legt/cm <sup>2</sup> )	(logi/cm <sup>2</sup> )	(ket/cm <sup>2</sup> )
6.16	6.23	440	136	0.87	0.062281	18.94	2 369	0.629	2 998	3 969	1.814
6.18	6.25	440	195	0.37	0.062503	18.94	2 368	0.632	3,000	3 368	1.816
6.21	6.28	441	195	0.87	0.062787	18.95	2 373	0.632	3.005	3 979	1.818
6.23	6.30	440	195	0.37	0.063009	18.95	2 367	0.632	2 999	3 367	1.816
6.36	6.90	440	100	0.37	0.062000	10.05	2.200	0.000	2.001	0.000	1 010
6.28	6.35	441	195	0.37	0.063515	18.96	2 371	0.635	3,005	3 371	1.820
630	6.37	441	195	0.37	0.063738	18.97	2 370	0.635	3.005	3 370	1.820
6.99	6.40	443	135	0.36	0.064031	19.97	3 975	0.639	2.012	2 275	1.935
6.35	6.42	441	195	0.36	0.064244	18.98	2 369	0.638	3.007	3 969	1 822
6.97	6.45	443	100	0.36	0.004400	19.09	3 374	0.639	2.012	2 274	1.935
6.40	6.47	441	195	0.36	0.064749	18.99	2 368	0.638	3.005	3 368	1.822
6.42	6.50	441	195	0.36	0.064972	18.99	2 367	0.640	3,008	3 367	1 824
6.44	6.50	441	100	0.36	0.065194	19.00	3.967	0.640	2.007	2.367	1 934
6.47	6.55	441	195	0.36	0.065478	19.00	2.366	0.640	3,005	3 366	1.823
6.40	6.57	443	100	0.26	0.065700	10.01	3.074	0.640	2.011	2,074	1 0 3 4
6.60	6.57	442	132	0.39	0.065913	10.01	2.274	0.040	2,002	3.371	1,936
6.54	6.61	442	194	0.36	0.066135	19.01	2 370	0.643	3.013	3 370	1.828
6.67	6.64	443	104	0.26	0.0000000	10.02	3 3 6 6	0.640	2.013	2.370	1.000
6.57	6.67	44.2	134	0.30	0.066713	19.02	2.303	0.040	2,008	3,303	1.020
6.62	6.69	441	194	0.35	0.066935	19.03	2,362	0.646	3,008	3,362	1.827
6.65	6.73	443	104	0.35	0.067339	19.04	3.967	0.646	2.012	2.367	1.939
6.67	6.74	443	194	0.35	0.067441	19.04	2 372	0.649	3.021	3 372	1.835
6.69	6.77	444	104	0.35	0.067663	10.05	3.374	0.640	2 0 25	0.074	1.007
6.03	6.70	444	139	0.35	0.067846	19.05	2.370	0.649	3.025	3.376	1.027
6.75	6.82	440	134	0.35	0.068240	19.05	2.300	0.653	3.043	3,300	1.847
6.73	6.95	447	104	0.35	0.000240	10.00	2,200	0.653	2.042	2,000	1.047
6.90	6.63	440	134	0.35	0.066746	19.05	2.390	0.652	2.052	2,400	1.047
6.00	6.00	440	404	0.35	0.000/40	10.07	2,400	0.653	3,052	0.400	1.002
20.0	6.90	450	400	0.35	0.0000000	10.02	2,405	0.002	3.057	3,403	1.004
6.03	6.55	400	404	0.35	0.069202	10.00	2,404	0.004	3,055	2,409	1.007
6.00	6.00	46.4	400	0.35	0.000707	10.00	3,800	0.002	0.000	0.400	1 000
6.90	7.00	451	133	0.35	0.069090	10.00	2,400	0.004	3.003	2,400	1.000
0.92	7.00	404	455	0.34	0.0000000	10.00	2,413	0.007	5.070	3.413	1.004
6.07	7.02	403	400	0.54	0.070202	10.10	2,410	0.007	3.075	2,410	1.000
7.00	7.05	400	135	0.34	0.070770	10.10	2,417	0.007	2.074	2,417	1.000
7.00	7.10	100	400	0.34	0.073000	10.11	3,437	0.007	3.007	2,437	4 975
7.02	7.10	400	135	0.34	0.071002	10.11	2.427	0.000	3,007	2,427	1.073
2.02	7.46	400	400	0.34	0.071500	10.13	3,435	0.000	2.005	0.496	4 0 7 3
7.10	7.13	400	133	0.34	0.071905	10.12	2,423	0.000	3.005	2,425	1.073
7.10	7.10	400	132	0.34	0.073084	10.15	2,425	0.000	2.004	3.425	1.075
7.46	7.50	46.7	4.9.9	0.34	0.073007	10.14	3,434	0.000	2.007	0.404	1.000
7.13	7.23	457	102	0.34	0.072507	10.15	2,439	0.003	3,097	3,434	1.000
7.30	7.50	100	4.0.0	0.34	0.073933	10.15	3,437	0.003	2,000	2,433	4.070
7.20	7.20	400	132	0.34	0.072025	10.15	2,627	0.003	3,000	3.427	1.0/0
7.24	7.00	407	100	0.33	0.072352	19.10	2,432	0.000	3,007	3,432	1,002
7.57	7.00	467	4.92	0.33	0.070544	10.17	3,434	0.000	3,000	0,404	1,001
7.30	7.33	457	132	0.33	0.072264	10.17	2,431	0.600	3,000	2,431	1,001
7.23	7,30	427	102	0.22	0.074057	19.12	2,000	0.000	3,000	3,430	1,000
7.54	7.45	467	4.90	6.95	0.024526	10.10	3,030	0.000	2,007	0,450	1,000
7.39	7.40	407	132	0.33	0.074549	10.10	2.423	0.000	3,000	0.420	1.003
7.00	7,49	457	4.92	0.33	0.024292	10.10	3,633	0.071	2,000	2,420	1,000
7.43	7.51	457	192	0.33	0.075069	19.20	2 4 3 7	0.671	3,098	3,427	1 884

Outermain         Unitaria         Days (sec)         Description         Description         Description         Total is (sec)         Description         Description         Description         Description           7.44         7.53         455         131         0.33         0.075291         1.21         2.421         0.671         3.002         3.421         1.881           7.50         7.57         457         131         0.33         0.075594         1.221         2.423         0.677         3.003         3.425         1.888           7.50         7.56         457         131         0.32         0.078594         1.921         2.423         0.677         3.003         3.423         1.888           7.57         7.56         457         131         0.32         0.078595         1.921         2.423         0.677         3.103         3.426         1.890           7.57         7.56         457         131         0.32         0.077835         1.922         2.426         0.677         3.103         3.425         1.892           7.57         7.74         458         131         0.32         0.07813         1.925         2.425         0.679         3.1043         3.425 <th></th> <th>Deform.</th> <th>Celda</th> <th>Presión</th> <th>Incremento</th> <th></th> <th>Åres</th> <th>Erfuerro</th> <th>13</th> <th>a'1</th> <th>=1</th> <th>Erfuerzo</th>		Deform.	Celda	Presión	Incremento		Åres	Erfuerro	13	a'1	=1	Erfuerzo
Imm         N         (kar)         (kar) <th(kar)< th=""> <th(kar)< th="">         (kar)<!--</th--><th>Deformación</th><th>Unitaria</th><th>Cargo</th><th>de poros</th><th>deportos</th><th>Deform.</th><th>Correction</th><th>Dervindor</th><th>Electivo</th><th>Electivo</th><th>Total</th><th>Promedio</th></th(kar)<></th(kar)<>	Deformación	Unitaria	Cargo	de poros	deportos	Deform.	Correction	Dervindor	Electivo	Electivo	Total	Promedio
7.44         7.53         4.55         1.12         0.33         0.075291         19.20         2.411         0.671         3.092         3.411         1.881           7.45         7.55         457         131         0.33         0.075804         19.21         2.425         0.674         3.092         3.445         1.886           7.50         7.51         457         131         0.32         0.075804         19.22         2.424         0.577         3.101         3.442         1.888           7.57         7.56         457         131         0.32         0.075806         19.22         2.423         0.577         3.103         3.442         1.888           7.57         7.56         457         131         0.32         0.075816         19.24         2.426         0.577         3.104         3.447         1.890           7.63         458         131         0.32         0.077811         19.25         2.426         0.579         3.104         3.445         1.892           7.67         7.74         458         131         0.32         0.07811         19.22         2.426         0.579         3.104         3.445         1.892           7.72 <th>(mm)</th> <th>5</th> <th>N</th> <th>(kPa)</th> <th>(ket/cm<sup>2</sup>)</th> <th>Unitaria</th> <th>(cm<sup>2</sup>)</th> <th>(kat/cm<sup>2</sup>)</th> <th>(kgl/cm<sup>2</sup>)</th> <th>(kgt/cm<sup>2</sup>)</th> <th>(kgt/cm<sup>2</sup>)</th> <th>(kat/cm<sup>2</sup>)</th>	(mm)	5	N	(kPa)	(ket/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kat/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kat/cm <sup>2</sup> )
7.46         7.55         457         131         0.33         0.075504         19.21         2.415         0.674         1.099         3.415         1.187           7.50         7.50         457         131         0.32         0.078684         19.21         2.444         0.677         3.100         3.444         1.889           7.55         7.64         457         131         0.32         0.078584         19.22         2.423         0.677         3.100         3.443         1.888           7.50         7.64         453         131         0.32         0.079850         19.22         4.247         0.677         3.100         3.442         1.889           7.65         453         131         0.32         0.079818         19.25         4.45         0.677         3.100         3.445         1.892           7.65         453         131         0.32         0.07814         19.25         4.457         0.679         3.100         3.445         1.892           7.65         453         131         0.32         0.078147         19.26         4.457         0.579         3.100         3.445         1.892           7.77         7.84         450	7.44	7.53	456	132	0.33	0.075291	19.20	2.421	0.671	3.092	3.421	1 881
750         7.59         457         111         0.33         0.075868         19.21         2.425         0.674         3.098         3.445         1.886           755         7.64         457         131         0.32         0.076896         19.22         2.423         0.677         3.100         3.424         1.888           7.57         7.66         457         131         0.32         0.078956         19.22         2.423         0.677         3.100         3.423         1.888           7.50         7.68         453         131         0.32         0.077183         19.24         2.426         0.677         3.103         3.426         1.890           7.63         7.72         458         131         0.32         0.077181         19.25         2.425         0.679         3.105         3.445         1.892           7.67         7.78         458         131         0.32         0.07813         19.25         2.425         0.679         3.104         3.425         1.892           7.77         7.86         460         130         0.32         0.07814         19.22         2.428         0.682         3.111         3.442         1.891	7.46	7.55	457	131	0.33	0.075504	19.21	2.425	0.674	3.099	3,425	1.887
7.52         7.51         457         131         0.32         0.078091         19.22         2.424         0.677         1.101         3.404         1.489           7.55         7.54         457         131         0.32         0.078384         19.22         2.423         0.677         3.100         3.443         1.888           7.50         7.56         458         131         0.32         0.078380         19.23         2.421         0.677         3.104         3.427         1.897           7.53         7.74         458         131         0.32         0.077836         19.25         2.426         0.677         3.104         3.425         1.892           7.45         458         131         0.32         0.078134         19.25         2.426         0.679         3.104         3.425         1.892           7.72         7.81         459         131         0.32         0.078347         1.922         2.433         0.682         3.111         3.429         1.892           7.77         7.86         460         130         0.32         0.078347         1.922         1.433         0.682         3.111         3.432         1.899           7.77 <td>7.50</td> <td>7.59</td> <td>457</td> <td>131</td> <td>0.33</td> <td>0.075868</td> <td>19.21</td> <td>2.425</td> <td>0.674</td> <td>3.098</td> <td>3.425</td> <td>1 885</td>	7.50	7.59	457	131	0.33	0.075868	19.21	2.425	0.674	3.098	3.425	1 885
7.55         7.84         457         131         0.32         0.078384         19.22         2.413         0.677         3.100         3.413         1.888           7.50         7.66         457         131         0.32         0.078966         19.22         2.413         0.677         3.099         3.443         1.889           7.63         7.72         458         131         0.32         0.077183         19.25         2.415         0.677         3.103         3.425         1.892           7.67         7.74         458         131         0.32         0.077818         19.25         2.415         0.679         3.105         3.425         1.892           7.67         7.84         458         131         0.32         0.07811         19.25         2.415         0.679         3.104         3.425         1.892           7.72         7.84         450         130         0.32         0.07814         19.27         2.432         0.682         3.115         3.432         1.897           7.77         7.86         460         130         0.31         0.07913         19.22         2.442         0.682         3.117         3.433         1.997	7.52	7.61	457	191	0.32	0.075091	19.22	2 4 2 4	0.677	3 101	3 434	1 889
1.53         1.54         4.57         111         0.32         0.075846         11.23         2.423         0.677         3.104         3.413         1.888           7.60         7.69         458         131         0.32         0.075846         19.24         2.423         0.677         3.104         3.425         1.890           7.63         7.74         458         131         0.32         0.077848         19.24         2.425         0.679         3.105         3.426         1.890           7.63         7.74         458         131         0.32         0.07814         19.25         2.425         0.679         3.104         3.445         1.891           7.64         453         131         0.32         0.07814         19.25         2.425         0.679         3.104         3.421         1.891           7.72         7.84         450         130         0.32         0.07840         19.22         2.432         0.682         3.111         3.423         1.891           7.77         7.86         460         130         0.31         0.079149         19.29         2.432         0.682         3.111         3.435         1.901           7.87	7 66	7.64	457	101	0.22	0.076284	10.22	3,433	0.677	2 100	2,432	1 999
7.40         7.41         7.42         7.42         7.42         7.44         7.44         7.44         7.44         7.44         7.44         7.44         7.44         7.44         7.44         7.44         7.44         7.44         7.44         7.44         7.44         7.45         7.44         7.45         7.44         7.45         7.44         7.45         7.11         7.42         7.45         7.11         7.72         7.74         7.45         7.11         7.72         7.74         7.58         1.11         0.32         0.077811         1.925         2.425         0.679         3.105         3.445         1.891           7.72         7.86         450         1.30         0.32         0.078810         1.927         2.433         0.682         3.111         3.443         1.899           7.77         7.86         460         130         0.32         0.078813         1.922         2.432         0.682         3.115         3.432         1.899           7.80         7.91         461         130         0.31         0.07914         1.929         2.432         0.682         3.121         3.445         1.901           7.85         7.97         461	7.57	7.66	457	191	0.32	0.076596	19.23	2.423	0.677	3,099	3,423	1 888
7.83         7.72         458         131         0.32         0.077183         19.24         2.425         0.677         3.103         3.426         1.890           7.65         7.74         458         131         0.32         0.077386         19.25         7.425         0.679         3.105         3.445         1.892           7.67         458         131         0.32         0.07811         19.25         2.445         0.679         3.104         3.415         1.892           7.63         459         130         0.32         0.07811         19.25         2.429         0.679         3.104         3.415         1.891           7.72         7.84         459         130         0.32         0.078810         19.27         2.433         0.682         3.111         3.429         1.891           7.80         7.80         460         130         0.31         0.079146         19.22         2.432         0.685         3.111         3.432         1.991           7.81         460         130         0.31         0.079419         19.27         2.436         0.685         3.121         3.436         1.903           7.82         7.91         461	7.60	7.69	458	191	0.32	0.075890	19.24	2 4 2 7	0.677	3 104	3,437	1.890
1.2.2         1.7.4         4.56         1.11         0.32         0.07714         1.2.45         0.377         3.105         3.445         1.329           7.67         7.76         458         131         0.32         0.077618         1925         2.425         0.679         3.104         3.445         1.892           7.69         7.78         458         131         0.32         0.07811         1925         2.425         0.679         3.104         3.4455         1.892           7.72         7.61         459         130         0.32         0.07814         1927         2.429         0.662         3.1115         3.432         1.899           7.77         7.86         460         130         0.31         0.07813         1928         2.432         0.682         3.115         3.432         1.899           7.80         7.84         461         130         0.31         0.07913         1928         2.435         0.682         3.111         3.435         1.903           7.81         461         130         0.31         0.060219         19.31         2.435         0.688         3.121         3.436         1.903           7.83         8.61	7.63	7.75	450	101	0.22	0.077193	10.34	3.436	0.677	2 102	2.436	1 900
7.57         4.58         1.11         0.32         0.077616         1.925         7.445         0.057         3.105         3.4455         1.892           7.69         7.78         458         131         0.32         0.077811         19.26         7.425         0.679         3.105         3.425         1.892           7.72         7.84         459         130         0.32         0.078147         19.27         2.429         0.682         3.111         3.429         1.897           7.77         7.86         460         130         0.32         0.078130         19.27         2.433         0.682         3.115         3.433         1.899           7.80         7.84         460         130         0.31         0.079131         19.28         2.432         0.685         3.117         3.432         1.901           7.81         7.94         461         130         0.31         0.079131         19.29         2.435         0.685         3.112         3.436         1.903           7.81         460         130         0.31         0.07945         19.30         2.435         0.685         3.121         3.436         1.903           7.85         8.07 </td <td>7.65</td> <td>7.74</td> <td>459</td> <td>191</td> <td>0.22</td> <td>0.077266</td> <td>10.35</td> <td>2,426</td> <td>0.678</td> <td>2 105</td> <td>2,436</td> <td>1 993</td>	7.65	7.74	459	191	0.22	0.077266	10.35	2,426	0.678	2 105	2,436	1 993
7.87         7.76         458         131         0.32         0.07815         1925         7.425         0.677         3.104         3.425         1.591           7.72         7.81         459         133         0.32         0.07814         1926         7.423         0.682         3.111         3.429         1.894           7.74         7.83         459         130         0.32         0.078347         1927         2.433         0.682         3.111         3.429         1.894           7.77         7.86         460         130         0.32         0.078630         1927         2.433         0.682         3.111         3.421         1.897           7.80         7.84         460         130         0.31         0.07944         1928         2.432         0.682         3.117         3.432         1.990           7.85         7.94         461         130         0.31         0.07945         19.30         2.435         0.688         3.127         3.435         1.908           7.80         7.84         130         0.31         0.069219         19.31         2.439         0.688         3.127         3.439         1.9007           7.83	7.63	7.74	400	4.04	0.32	0.077610	10.05	3,436	0.670	0.400	0.496	1 003
7.72         7.84         455         111         0.32         0.07131         152.85         0.242         0.037         3.144         3.425         1.834           7.74         7.83         459         130         0.32         0.078347         192.7         2.433         0.682         3.111         3.429         1.834           7.77         7.86         460         130         0.32         0.078931         192.8         2.432         0.682         3.111         3.432         1.894           7.80         7.91         460         130         0.31         0.079131         192.8         2.432         0.682         3.117         3.432         1.901           7.82         7.91         461         130         0.31         0.079123         192.9         2.436         0.685         3.121         3.435         1.903           7.83         8.02         462         130         0.31         0.079123         19.31         2.439         0.688         3.123         3.435         1.905           7.93         8.02         462         130         0.31         0.081251         19.33         2.443         0.688         3.126         3.438         1.907 <tr< td=""><td>7.07</td><td>7.79</td><td>420</td><td>101</td><td>0.32</td><td>0.077921</td><td>19.25</td><td>2,423</td><td>0.679</td><td>3.105</td><td>3,425</td><td>1.002</td></tr<>	7.07	7.79	420	101	0.32	0.077921	19.25	2,423	0.679	3.105	3,425	1.002
7.74         7.84         7.84         7.84         7.84         7.84         7.84         7.85         7.85         7.86         7.86         130         0.32         0.07847         19.27         2.429         0.682         3.111         3.429         1.897           7.77         7.86         460         130         0.32         0.07847         19.27         2.433         0.682         3.115         3.432         1.897           7.80         7.51         460         130         0.31         0.079146         19.28         2.432         0.685         3.117         3.432         1.901           7.85         7.54         461         130         0.31         0.079419         19.29         2.436         0.685         3.121         3.435         1.903           7.86         7.97         461         130         0.31         0.0794915         13.0         2.435         0.688         3.127         3.439         1.906           7.93         8.02         452         130         0.31         0.069174         1323         2.437         0.688         3.127         3.439         1.907           8.01         8.10         462         130         0.31	7.00	7.01	450	101	0.32	0.077631	10.20	2,423	0.679	3.109	3,425	1.002
1.14         1.83         4.53         1.30         0.32         0.078347         1.92.7         2.433         0.682         3.111         3.433         1.899           7.80         7.80         460         130         0.32         0.078913         19.28         2.432         0.682         3.115         3.433         1.899           7.80         7.81         460         130         0.31         0.079146         19.28         2.432         0.685         3.117         3.432         1.901           7.85         7.91         461         130         0.31         0.079713         19.29         2.436         0.685         3.121         3.435         1.903           7.88         7.97         461         130         0.31         0.07913         19.29         2.435         0.688         3.123         3.435         1.905           7.90         7.91         461         130         0.31         0.080714         19.31         2.439         0.688         3.127         3.439         1.906           7.95         8.05         452         130         0.31         0.08108         1.322         2.438         0.688         3.125         3.437         1.907 <t< td=""><td>7.74</td><td>7.01</td><td>400</td><td>4.55</td><td>0.32</td><td>0.070124</td><td>10.20</td><td>2,423</td><td>0.070</td><td>3.109</td><td>3,423</td><td>1.004</td></t<>	7.74	7.01	400	4.55	0.32	0.070124	10.20	2,423	0.070	3.109	3,423	1.004
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7.75	7.03	423	130	0.32	0.0796347	10.27	2,423	0.002	2.111	2,423	1.007
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1.11	7.00	400	130	0.32	0.070030	19.27	2,433	0.002	3.115	3,433	1.699
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7.80	7.89	460	130	0.32	0.078973	19.28	2.452	0.682	3.115	3.432	1.898
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7.82	7.91	460	130	0.31	0.079146	19.28	2.452	0.685	3.117	3.452	1.901
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7.85	7.54	461	130	0.31	0.079429	19.29	2.458	0.685	3.121	3.435	1.903
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7.88	7.97	461	130	0.31	0.079723	19.29	2.436	0.685	3.121	3.436	1.903
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7.90	7.99	461	130	0.31	0.079945	19.30	2.435	0.688	3.123	3.435	1.905
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7.93	8.02	462	130	0.31	0.080229	19.31	2.439	0.688	3.127	3.439	1.908
7.98         8.07         462         130         0.31         0.080744         19.32         2.438         0.688         3.126         3.438         1.907           8.03         8.13         463         130         0.31         0.081028         19.33         2.447         0.688         3.125         3.437         1.907           8.03         8.13         463         130         0.31         0.081260         19.33         2.447         0.688         3.130         3.442         1.909           8.05         8.15         464         130         0.31         0.08176         19.34         2.447         0.691         3.137         3.446         1.914           8.08         8.18         464         130         0.31         0.08179         19.34         2.451         0.691         3.141         3.441         1.916           8.12         8.22         465         129         0.31         0.082978         1.935         2.449         0.693         3.143         3.449         1.918           8.18         8.28         466         129         0.31         0.08290         1.935         2.458         0.693         3.147         3.454         1.920	7.95	8.05	462	130	0.31	0.080451	19.31	2.439	0.688	3.127	3.439	1.907
8.01         8.10         462         130         0.31         0.081028         19.32         2.437         0.688         3.125         3.437         1.907           8.03         8.13         463         130         0.31         0.081250         19.33         2.447         0.688         3.130         3.447         1.914           8.06         8.15         464         130         0.31         0.081453         19.34         2.447         0.691         3.137         3.447         1.914           8.08         8.18         464         130         0.31         0.081756         19.34         2.447         0.691         3.141         3.445         1.914           8.10         8.20         465         129         0.31         0.082191         19.35         2.450         0.693         3.144         3.450         1.918           8.15         8.25         465         129         0.31         0.082485         19.35         2.449         0.693         3.147         3.454         1.920           8.10         8.30         467         129         0.31         0.082491         19.36         2.453         0.693         3.152         3.453         1.920 <tr< td=""><td>7.98</td><td>8.07</td><td>462</td><td>130</td><td>0.31</td><td>0.080744</td><td>19.32</td><td>2.438</td><td>0.688</td><td>3.126</td><td>3.438</td><td>1.907</td></tr<>	7.98	8.07	462	130	0.31	0.080744	19.32	2.438	0.688	3.126	3.438	1.907
8.03         8.13         463         130         0.31         0.081250         19.33         2.442         0.688         3.130         3.442         1.909           8.05         8.15         464         130         0.31         0.081756         19.33         2.447         0.691         3.137         3.446         1.914           8.08         8.18         454         130         0.31         0.081756         19.34         2.446         0.691         3.137         3.446         1.914           8.10         8.22         465         129         0.31         0.082191         1.935         2.450         0.693         3.144         3.450         1.918           8.15         8.25         455         129         0.31         0.082778         1.936         2.454         0.693         3.147         3.454         1.920           8.13         8.32         466         129         0.31         0.082900         1.936         2.454         0.693         3.152         3.458         1.923           8.13         8.32         468         129         0.30         0.08313         1.937         2.462         0.699         3.161         3.462         1.927	8.01	8.10	462	130	0.31	0.081028	19.32	2.437	0.688	3.125	3.437	1.907
8.05         8.15         464         130         0.031         0.081463         19.33         2.447         0.691         3.137         3.447         1.914           8.08         8.18         464         130         0.31         0.081756         19.34         2.446         0.691         3.137         3.446         1.914           8.10         8.20         465         130         0.31         0.081979         19.34         2.451         0.691         3.141         3.451         1.914           8.12         8.22         465         129         0.31         0.082485         1.935         2.449         0.693         3.144         3.450         1.918           8.18         8.38         466         129         0.31         0.082778         1.936         2.454         0.693         3.147         3.453         1.920           8.23         468         129         0.30         0.08213         1.937         2.463         0.693         3.152         3.453         1.928           8.12         8.30         468         129         0.30         0.083719         1.937         2.462         0.696         3.159         3.462         1.927           8.24 <td>8.03</td> <td>8.13</td> <td>463</td> <td>130</td> <td>0.31</td> <td>0.081250</td> <td>19.33</td> <td>2.442</td> <td>0.688</td> <td>3.130</td> <td>3.442</td> <td>1.909</td>	8.03	8.13	463	130	0.31	0.081250	19.33	2.442	0.688	3.130	3.442	1.909
8.08         8.18         464         130         0.31         0.081756         19.34         2.446         0.691         3.137         3.446         1.914           8.10         8.20         465         130         0.31         0.08179         19.34         2.451         0.691         3.141         3.451         1.916           8.12         8.22         465         129         0.31         0.082191         19.35         2.449         0.693         3.144         3.450         1.918           8.15         8.25         465         129         0.31         0.082778         19.36         2.444         0.693         3.147         3.454         1.920           8.20         8.30         467         129         0.31         0.082900         19.36         2.453         0.693         3.152         3.453         1.928           8.23         8.32         468         129         0.30         0.083719         19.37         2.462         0.696         3.159         3.462         1.927           8.28         8.37         468         129         0.30         0.084012         19.39         2.461         0.699         3.160         3.461         1.929	8.05	8.15	464	130	0.31	0.081463	19.33	2.447	0.691	3.137	3.447	1.914
8.10         8.20         465         130         0.31         0.081979         19.34         2.451         0.691         3.141         3.451         1.916           8.12         8.22         465         129         0.31         0.082491         19.35         2.450         0.693         3.144         3.449         1.918           8.15         8.25         465         129         0.31         0.082485         19.35         2.454         0.693         3.147         3.454         1.920           8.10         8.30         467         129         0.31         0.082990         19.36         2.454         0.693         3.147         3.454         1.920           8.23         8.32         468         129         0.30         0.083213         19.37         2.463         0.696         3.159         3.462         1.927           8.28         8.37         468         129         0.30         0.084012         19.39         2.461         0.699         3.161         3.462         1.929           8.30         8.40         468         129         0.30         0.08406         19.39         2.461         0.699         3.164         3.461         1.929	8.08	8.18	464	130	0.31	0.081756	19.34	2.446	0.691	3.137	3.446	1.914
8.12         8.22         465         129         0.31         0.082191         19.35         2.450         0.693         3.144         3.450         1.918           8.15         8.25         465         129         0.31         0.082485         19.35         2.449         0.693         3.143         3.449         1.918           8.18         8.28         466         129         0.31         0.082978         19.36         2.454         0.693         3.147         3.454         1.920           8.20         8.30         467         129         0.31         0.082901         19.36         2.458         0.693         3.152         3.458         1.923           8.23         8.32         458         129         0.30         0.083719         19.37         2.462         0.699         3.161         3.452         1.927           8.28         8.37         458         129         0.30         0.08471         19.39         2.461         0.699         3.161         3.452         1.930           8.30         8.40         458         129         0.30         0.08471         19.40         2.465         0.699         3.164         3.455         1.931	8.10	8.20	465	130	0.31	0.081979	19.34	2.451	0.691	3.141	3.451	1.916
8.15         8.25         465         129         0.31         0.082485         19.35         2.449         0.693         3.143         3.449         1.918           8.18         8.28         466         129         0.31         0.082778         19.36         2.454         0.693         3.147         3.454         1.920           8.20         8.30         467         129         0.31         0.082900         19.36         2.458         0.693         3.152         3.458         1.923           8.23         8.32         468         129         0.30         0.083496         1.937         2.462         0.696         3.159         3.462         1.927           8.28         8.37         468         129         0.30         0.083496         19.37         2.462         0.699         3.161         3.462         1.930           8.30         8.40         468         129         0.30         0.0844012         1.939         2.461         0.699         3.161         3.462         1.930           8.33         8.43         468         129         0.30         0.084518         1.940         2.465         0.699         3.164         3.465         1.931 <t< td=""><td>8.12</td><td>8.22</td><td>465</td><td>129</td><td>0.31</td><td>0.082191</td><td>19.35</td><td>2.450</td><td>0.693</td><td>3.144</td><td>3.450</td><td>1.918</td></t<>	8.12	8.22	465	129	0.31	0.082191	19.35	2.450	0.693	3.144	3.450	1.918
8.18         8.28         466         129         0.31         0.082778         19.36         2.454         0.693         3.147         3.454         1.920           8.20         8.30         467         129         0.31         0.082900         19.36         2.458         0.693         3.152         3.458         1.923           8.23         8.32         468         129         0.30         0.083496         19.37         2.462         0.696         3.159         3.462         1.927           8.28         8.37         468         129         0.30         0.083719         19.38         2.462         0.699         3.161         3.462         1.927           8.38         8.40         468         129         0.30         0.08471         19.39         2.461         0.699         3.160         3.461         1.929           8.35         8.45         469         129         0.30         0.084506         1.9.39         2.465         0.699         3.154         3.465         1.929           8.35         8.45         469         129         0.30         0.084518         19.40         2.455         0.699         3.154         3.451         1.929 <tr< td=""><td>8.15</td><td>8.25</td><td>465</td><td>129</td><td>0.31</td><td>0.082485</td><td>19.35</td><td>2.449</td><td>0.693</td><td>3.143</td><td>3.449</td><td>1.918</td></tr<>	8.15	8.25	465	129	0.31	0.082485	19.35	2.449	0.693	3.143	3.449	1.918
8.20         8.30         467         129         0.31         0.082990         19.36         2.458         0.693         3.152         3.458         1.923           8.23         8.32         468         129         0.30         0.083213         19.37         2.463         0.696         3.159         3.463         1.928           8.25         8.35         468         129         0.30         0.08319         19.37         2.462         0.696         3.159         3.462         1.927           8.28         8.37         468         129         0.30         0.08496         19.37         2.462         0.699         3.161         3.462         1.927           8.30         8.40         468         129         0.30         0.08496         19.39         2.461         0.699         3.160         3.461         1.929           8.33         8.43         468         129         0.30         0.08496         1.939         2.460         0.699         3.158         3.460         1.929           8.35         8.45         469         128         0.30         0.08247         1.940         2.463         0.702         3.165         3.464         1.933	8.18	8.28	46	129	0.31	0.082778	19.36	2.454	0.693	3.147	3,454	1.920
8.23         8.32         468         129         0.30         0.083213         19.37         2.463         0.696         3.159         3.463         1.928           8.25         8.35         468         129         0.30         0.083496         19.37         2.462         0.695         3.159         3.462         1.927           8.28         8.37         468         129         0.30         0.083719         19.38         2.462         0.699         3.161         3.462         1.927           8.30         8.40         468         129         0.30         0.084012         19.39         2.461         0.699         3.160         3.461         1.929           8.33         8.43         468         129         0.30         0.084518         19.40         2.465         0.699         3.164         3.465         1.931           8.35         8.45         469         129         0.30         0.084518         19.40         2.465         0.699         3.158         3.459         1.929           8.36         8.47         468         129         0.30         0.085247         19.41         2.464         0.702         3.165         3.464         1.933 <tr< td=""><td>8.20</td><td>8.30</td><td>467</td><td>129</td><td>0.31</td><td>0.082990</td><td>19.36</td><td>2.458</td><td>0.693</td><td>3.152</td><td>3.458</td><td>1.923</td></tr<>	8.20	8.30	467	129	0.31	0.082990	19.36	2.458	0.693	3.152	3.458	1.923
8.25         8.35         468         129         0.30         0.083496         19.37         2.462         0.696         3.159         3.462         1.927           8.28         8.37         468         129         0.30         0.083719         19.38         2.462         0.699         3.161         3.462         1.930           8.30         8.40         468         129         0.30         0.084012         19.39         2.461         0.699         3.160         3.461         1.929           8.33         8.43         468         129         0.30         0.084306         19.39         2.460         0.699         3.160         3.460         1.929           8.35         8.45         469         129         0.30         0.084518         19.40         2.465         0.699         3.164         3.465         1.931           8.38         8.47         468         129         0.30         0.085024         19.41         2.464         0.702         3.165         3.464         1.934           8.43         8.52         469         128         0.30         0.085459         19.42         2.462         0.702         3.164         3.462         1.933 <tr< td=""><td>8.23</td><td>8.32</td><td>468</td><td>129</td><td>0.30</td><td>0.083213</td><td>19.37</td><td>2.463</td><td>0.696</td><td>3.159</td><td>3.463</td><td>1.928</td></tr<>	8.23	8.32	468	129	0.30	0.083213	19.37	2.463	0.696	3.159	3.463	1.928
8.28         8.37         468         129         0.30         0.083719         19.38         2.462         0.699         3.161         3.462         1.930           8.30         8.40         468         129         0.30         0.084012         19.39         2.461         0.699         3.160         3.461         1.929           8.33         8.43         468         129         0.30         0.084306         19.39         2.460         0.699         3.159         3.460         1.929           8.35         8.45         469         129         0.30         0.084518         19.40         2.465         0.699         3.154         3.465         1.931           8.38         8.47         468         129         0.30         0.084741         19.40         2.453         0.699         3.154         3.459         1.929           8.40         8.50         469         128         0.30         0.085247         19.41         2.464         0.702         3.165         3.464         1.933           8.45         8.55         469         128         0.30         0.085459         19.42         2.462         0.702         3.164         3.462         1.933 <tr< td=""><td>8.25</td><td>8.35</td><td>468</td><td>129</td><td>0.30</td><td>0.083496</td><td>19.37</td><td>2.462</td><td>0.696</td><td>3.159</td><td>3.462</td><td>1.927</td></tr<>	8.25	8.35	468	129	0.30	0.083496	19.37	2.462	0.696	3.159	3.462	1.927
8.30         8.40         468         129         0.30         0.084012         19.39         2.461         0.699         3.160         3.461         1.929           8.33         8.43         468         129         0.30         0.084306         19.39         2.460         0.699         3.159         3.460         1.929           8.35         8.45         469         129         0.30         0.084518         19.40         2.465         0.699         3.164         3.465         1.931           8.38         8.47         468         129         0.30         0.084741         19.40         2.459         0.699         3.158         3.459         1.929           8.40         8.50         469         128         0.30         0.085024         19.41         2.464         0.702         3.165         3.464         1.934           8.43         8.52         469         128         0.30         0.085459         19.42         2.462         0.702         3.164         3.462         1.933           8.45         8.55         469         128         0.30         0.085682         19.42         2.462         0.702         3.164         3.461         1.935 <tr< td=""><td>8.28</td><td>8.37</td><td>468</td><td>129</td><td>0.30</td><td>0.083719</td><td>19.38</td><td>2.462</td><td>0.699</td><td>3.161</td><td>3.462</td><td>1.930</td></tr<>	8.28	8.37	468	129	0.30	0.083719	19.38	2.462	0.699	3.161	3.462	1.930
8.33         8.43         468         129         0.30         0.084306         19.39         2.460         0.699         3.159         3.460         1.929           8.35         8.45         469         129         0.30         0.084518         19.40         2.465         0.699         3.164         3.465         1.931           8.38         8.47         468         129         0.30         0.084741         19.40         2.459         0.699         3.158         3.459         1.929           8.40         8.50         469         128         0.30         0.085024         19.41         2.464         0.702         3.165         3.464         1.934           8.43         8.52         469         128         0.30         0.085247         19.41         2.463         0.702         3.165         3.463         1.933           8.45         8.55         469         128         0.30         0.085682         19.42         2.462         0.702         3.164         3.462         1.933           8.50         8.60         469         128         0.30         0.085875         19.43         2.461         0.705         3.166         3.461         1.935 <tr< td=""><td>8.30</td><td>8.40</td><td>468</td><td>129</td><td>0.30</td><td>0.084012</td><td>19.39</td><td>2.461</td><td>0.699</td><td>3.160</td><td>3.461</td><td>1.929</td></tr<>	8.30	8.40	468	129	0.30	0.084012	19.39	2.461	0.699	3.160	3.461	1.929
8.35         8.45         469         129         0.30         0.084518         19.40         2.465         0.699         3.164         3.465         1.931           8.38         8.47         468         129         0.30         0.084741         19.40         2.459         0.699         3.158         3.459         1.929           8.40         8.50         469         128         0.30         0.085024         19.41         2.464         0.702         3.165         3.464         1.934           8.43         8.52         469         128         0.30         0.085247         19.41         2.463         0.702         3.164         3.462         1.933           8.45         8.55         469         128         0.30         0.085459         19.42         2.462         0.702         3.164         3.462         1.933           8.47         8.57         469         128         0.30         0.085682         19.42         2.462         0.702         3.164         3.462         1.933           8.50         8.60         469         128         0.30         0.085975         19.43         2.461         0.705         3.166         3.461         1.935 <tr< td=""><td>8.33</td><td>8.43</td><td>468</td><td>129</td><td>0.30</td><td>0.084306</td><td>19.39</td><td>2.460</td><td>0.699</td><td>3.159</td><td>3.460</td><td>1.929</td></tr<>	8.33	8.43	468	129	0.30	0.084306	19.39	2.460	0.699	3.159	3.460	1.929
8.38         8.47         468         129         0.30         0.084741         19.40         2.459         0.699         3.158         3.459         1.929           8.40         8.50         469         128         0.30         0.085024         19.41         2.464         0.702         3.165         3.464         1.934           8.43         8.52         469         128         0.30         0.085247         19.41         2.463         0.702         3.165         3.463         1.933           8.45         8.55         469         128         0.30         0.085459         19.42         2.462         0.702         3.164         3.462         1.933           8.47         8.57         469         128         0.30         0.085682         19.42         2.462         0.702         3.164         3.462         1.933           8.50         8.60         469         128         0.30         0.085975         19.43         2.466         0.705         3.166         3.461         1.935           8.52         8.62         470         128         0.30         0.086481         19.43         2.466         0.705         3.169         3.465         1.937 <tr< td=""><td>8.35</td><td>8.45</td><td>469</td><td>129</td><td>0.30</td><td>0.084518</td><td>19.40</td><td>2.465</td><td>0.699</td><td>3.164</td><td>3.465</td><td>1.931</td></tr<>	8.35	8.45	469	129	0.30	0.084518	19.40	2.465	0.699	3.164	3.465	1.931
8.40         8.50         469         128         0.30         0.085024         19.41         2.464         0.702         3.165         3.464         1.934           8.43         8.52         469         128         0.30         0.085247         19.41         2.463         0.702         3.165         3.463         1.933           8.45         8.55         469         128         0.30         0.085459         19.42         2.462         0.702         3.164         3.462         1.933           8.47         8.57         469         128         0.30         0.085682         19.42         2.462         0.702         3.164         3.462         1.933           8.50         8.60         469         128         0.30         0.085975         19.43         2.461         0.705         3.164         3.462         1.933           8.50         8.60         469         128         0.30         0.085975         19.43         2.466         0.705         3.164         3.461         1.935           8.52         8.62         470         128         0.30         0.086481         19.44         2.465         0.705         3.169         3.465         1.937 <tr< td=""><td>8.38</td><td>8.47</td><td>468</td><td>129</td><td>0.30</td><td>0.084741</td><td>19.40</td><td>2.459</td><td>0.699</td><td>3.158</td><td>3.459</td><td>1.929</td></tr<>	8.38	8.47	468	129	0.30	0.084741	19.40	2.459	0.699	3.158	3.459	1.929
8.43         8.52         469         128         0.30         0.085247         19.41         2.463         0.702         3.165         3.463         1.933           8.45         8.55         469         128         0.30         0.085459         19.42         2.462         0.702         3.164         3.462         1.933           8.47         8.57         469         128         0.30         0.085682         19.42         2.462         0.702         3.164         3.462         1.933           8.50         8.60         469         128         0.30         0.085975         19.43         2.461         0.705         3.164         3.462         1.933           8.50         8.60         469         128         0.30         0.085975         19.43         2.461         0.705         3.166         3.461         1.935           8.52         8.62         470         128         0.30         0.086187         19.43         2.465         0.705         3.169         3.465         1.937           8.55         8.65         470         128         0.29         0.086703         19.44         2.465         0.707         3.172         3.464         1.939 <tr< td=""><td>8.40</td><td>8.50</td><td>469</td><td>128</td><td>0.30</td><td>0.085024</td><td>19.41</td><td>2.464</td><td>0.702</td><td>3.165</td><td>3.464</td><td>1.934</td></tr<>	8.40	8.50	469	128	0.30	0.085024	19.41	2.464	0.702	3.165	3.464	1.934
8.45         8.55         469         128         0.30         0.085459         19.42         2.462         0.702         3.164         3.462         1.933           8.47         8.57         469         128         0.30         0.085682         19.42         2.462         0.702         3.164         3.462         1.933           8.50         8.60         469         128         0.30         0.085975         19.43         2.461         0.705         3.164         3.462         1.933           8.50         8.60         469         128         0.30         0.085975         19.43         2.461         0.705         3.166         3.461         1.935           8.52         8.62         470         128         0.30         0.086187         19.43         2.465         0.705         3.169         3.455         1.937           8.55         8.65         470         128         0.29         0.086703         19.44         2.465         0.707         3.172         3.464         1.939           8.60         8.70         470         128         0.29         0.086987         19.45         2.463         0.707         3.171         3.463         1.939 <tr< td=""><td>8.43</td><td>8.52</td><td>469</td><td>128</td><td>0.30</td><td>0.085247</td><td>19.41</td><td>2.463</td><td>0.702</td><td>3.165</td><td>3.463</td><td>1.933</td></tr<>	8.43	8.52	469	128	0.30	0.085247	19.41	2.463	0.702	3.165	3.463	1.933
8.47         8.57         469         128         0.30         0.085682         19.42         2.462         0.702         3.164         3.462         1.933           8.50         8.60         469         128         0.30         0.085975         19.43         2.461         0.705         3.164         3.461         1.935           8.50         8.60         469         128         0.30         0.085975         19.43         2.461         0.705         3.166         3.461         1.935           8.52         8.62         470         128         0.30         0.086187         19.43         2.466         0.705         3.169         3.465         1.937           8.55         8.65         470         128         0.30         0.086481         19.44         2.465         0.705         3.169         3.465         1.937           8.57         8.67         470         128         0.29         0.086703         19.44         2.464         0.707         3.172         3.464         1.939           8.60         8.70         470         128         0.29         0.087209         19.45         2.463         0.707         3.171         3.463         1.939 <tr< td=""><td>8.45</td><td>8.55</td><td>469</td><td>128</td><td>0.30</td><td>0.085459</td><td>19.42</td><td>2,462</td><td>0.702</td><td>3.164</td><td>3.462</td><td>1,933</td></tr<>	8.45	8.55	469	128	0.30	0.085459	19.42	2,462	0.702	3.164	3.462	1,933
8.50         8.60         469         128         0.30         0.085975         19.43         2.461         0.705         3.166         3.461         1.935           8.52         8.62         470         128         0.30         0.086187         19.43         2.466         0.705         3.166         3.461         1.935           8.52         8.62         470         128         0.30         0.086187         19.43         2.466         0.705         3.170         3.466         1.937           8.55         8.65         470         128         0.30         0.086481         19.44         2.465         0.705         3.169         3.465         1.937           8.57         8.67         470         128         0.29         0.086703         19.44         2.464         0.707         3.172         3.464         1.939           8.60         8.70         470         128         0.29         0.086987         19.45         2.463         0.707         3.171         3.463         1.939           8.62         8.72         470         128         0.29         0.087209         19.45         2.463         0.707         3.170         3.463         1.939 <tr< td=""><td>8.47</td><td>8.57</td><td>469</td><td>128</td><td>0.30</td><td>0.085682</td><td>19.42</td><td>2.462</td><td>0.702</td><td>3,164</td><td>3.462</td><td>1.933</td></tr<>	8.47	8.57	469	128	0.30	0.085682	19.42	2.462	0.702	3,164	3.462	1.933
8.52         8.62         470         128         0.30         0.086187         19.43         2.466         0.705         3.170         3.466         1.937           8.55         8.65         470         128         0.30         0.086481         19.44         2.465         0.705         3.169         3.465         1.937           8.55         8.65         470         128         0.30         0.086481         19.44         2.465         0.705         3.169         3.465         1.937           8.57         8.67         470         128         0.29         0.086703         19.44         2.464         0.707         3.172         3.464         1.939           8.60         8.70         470         128         0.29         0.086987         19.45         2.463         0.707         3.171         3.463         1.939           8.62         8.72         470         128         0.29         0.087209         19.45         2.463         0.707         3.170         3.463         1.939           8.65         8.75         471         128         0.29         0.087503         19.45         2.463         0.707         3.170         3.467         1.944 <tr< td=""><td>8,50</td><td>8.60</td><td>469</td><td>128</td><td>0.30</td><td>0.085975</td><td>19.43</td><td>2.461</td><td>0.705</td><td>3,166</td><td>3,461</td><td>1.935</td></tr<>	8,50	8.60	469	128	0.30	0.085975	19.43	2.461	0.705	3,166	3,461	1.935
8.55         8.65         470         128         0.30         0.086481         19.44         2.465         0.705         3.169         3.465         1.937           8.55         8.67         470         128         0.29         0.086703         19.44         2.465         0.705         3.169         3.465         1.937           8.57         8.67         470         128         0.29         0.086703         19.44         2.464         0.707         3.172         3.464         1.939           8.60         8.70         470         128         0.29         0.086987         19.45         2.463         0.707         3.171         3.463         1.939           8.62         8.72         470         128         0.29         0.087209         19.45         2.463         0.707         3.170         3.463         1.939           8.65         8.75         471         128         0.29         0.087503         19.45         2.463         0.707         3.170         3.463         1.939           8.65         8.75         471         128         0.29         0.087503         19.46         2.467         0.710         3.177         3.467         1.944 <tr< td=""><td>8.52</td><td>8.62</td><td>470</td><td>128</td><td>0.30</td><td>0.086187</td><td>19.43</td><td>2.466</td><td>0.705</td><td>3 170</td><td>3.466</td><td>1 937</td></tr<>	8.52	8.62	470	128	0.30	0.086187	19.43	2.466	0.705	3 170	3.466	1 937
8.57         8.67         470         128         0.29         0.086703         19.44         2.464         0.707         3.172         3.464         1.939           8.60         8.70         470         128         0.29         0.086903         19.44         2.464         0.707         3.172         3.464         1.939           8.60         8.70         470         128         0.29         0.086987         19.45         2.463         0.707         3.171         3.463         1.939           8.62         8.72         470         128         0.29         0.087209         19.45         2.463         0.707         3.170         3.463         1.939           8.65         8.75         471         128         0.29         0.087209         19.45         2.463         0.707         3.170         3.463         1.939           8.65         8.75         471         128         0.29         0.087503         19.45         2.467         0.710         3.177         3.467         1.944           8.67         8.77         471         128         0.29         0.087715         19.46         2.467         0.710         3.177         3.467         1.944 <tr< td=""><td>8.55</td><td>8,65</td><td>470</td><td>128</td><td>0.30</td><td>0.085481</td><td>19.44</td><td>2,465</td><td>0,705</td><td>3,169</td><td>3,465</td><td>1,937</td></tr<>	8.55	8,65	470	128	0.30	0.085481	19.44	2,465	0,705	3,169	3,465	1,937
8.60         8.70         470         128         0.29         0.086987         19.45         2.463         0.707         3.171         3.463         1939           8.62         8.72         470         128         0.29         0.086987         19.45         2.463         0.707         3.171         3.463         1939           8.62         8.72         470         128         0.29         0.087209         19.45         2.463         0.707         3.170         3.463         1939           8.65         8.75         471         128         0.29         0.087503         19.46         2.467         0.710         3.177         3.467         1944           8.67         8.77         471         128         0.29         0.087715         19.46         2.467         0.710         3.177         3.467         1944           8.69         8.79         471         128         0.29         0.087938         19.47         2.466         0.710         3.176         3.466         1943           8.69         8.79         471         128         0.29         0.088231         19.47         2.466         0.710         3.176         3.466         1943	8.57	8.67	470	128	0.29	0.086703	19.44	2 464	0 707	3 172	3.464	1 9 8 9
8.62         8.72         470         128         0.29         0.087209         19.45         2.463         0.707         3.170         3.463         1.939           8.65         8.75         471         128         0.29         0.087209         19.45         2.463         0.707         3.170         3.463         1.939           8.65         8.75         471         128         0.29         0.087503         19.46         2.467         0.710         3.177         3.467         1.944           8.67         8.77         471         128         0.29         0.087715         19.46         2.467         0.710         3.177         3.467         1.944           8.69         8.79         471         128         0.29         0.087938         19.47         2.466         0.710         3.176         3.466         1.943           8.69         8.79         471         128         0.29         0.087938         19.47         2.466         0.710         3.176         3.466         1.943           8.72         8.82         472         128         0.29         0.088231         19.47         2.456         0.710         3.176         3.456         1.943 <td>8.60</td> <td>8,70</td> <td>470</td> <td>128</td> <td>0.29</td> <td>0.086987</td> <td>19.45</td> <td>2,463</td> <td>0,707</td> <td>3,171</td> <td>3,463</td> <td>1,939</td>	8.60	8,70	470	128	0.29	0.086987	19.45	2,463	0,707	3,171	3,463	1,939
8.65         8.75         471         128         0.29         0.087503         19.46         2.467         0.710         3.177         3.467         1.944           8.67         8.77         471         128         0.29         0.087503         19.46         2.467         0.710         3.177         3.467         1.944           8.69         8.79         471         128         0.29         0.087938         19.47         2.466         0.710         3.177         3.467         1.944           8.69         8.79         471         128         0.29         0.087938         19.47         2.466         0.710         3.176         3.466         1.943           8.72         8.82         472         128         0.29         0.088231         1.947         2.456         0.710         3.176         3.456         1.943	8,62	8,72	470	128	0.29	0.087209	19.45	2,463	0.707	3,170	3,463	1,939
8.67         8.77         471         128         0.29         0.087715         19.46         2.467         0.710         3.177         3.467         1.944           8.69         8.79         471         128         0.29         0.087715         19.46         2.467         0.710         3.177         3.467         1.944           8.69         8.79         471         128         0.29         0.087938         19.47         2.466         0.710         3.176         3.466         1.943           8.72         8.82         472         128         0.29         0.088231         19.47         2.465         0.710         3.176         3.466         1.943	8.65	8.75	471	128	0.29	0.087502	19.46	2.467	0.710	3 177	3,467	1944
8.69         8.79         471         128         0.29         0.087938         19.47         2.466         0.710         3.176         3.466         1.943           8.72         8.83         472         128         0.29         0.088231         19.47         2.466         0.710         3.176         3.466         1.943	8.67	8.77	471	128	0.23	0.087715	19.46	2,467	0.710	3 177	3,467	1944
870 880 477 128 8.09 124 140 0.47 1247 1400 0.710 3.170 3.400 1.943	8 69	8.70	174	100	0.26	0.087039	19.47	3 300	0.710	3 1 2 2	2,400 2,400	1 942
and a second	8.72	8.82	472	128	0.29	0.088221	19.47	2,471	0.710	3 181	3,471	1945

	Deform	Califa	<b>Presiden</b>	Incremento		Åren	Enforme	13	11	=1	Erfuerzo
Deformación	Uniteda	Cares	de noros	depend	Deform.	Correction	Bendador.	Hertho	Berthen	Total	Promedio
(mm)	5	N	(kPa)	(ket/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(ket/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(ket/cm <sup>2</sup> )
0.70	0.00	4753	4.9.2	0.20	0.000014	10.49	2,470	0.710	3 4 9 3	2,470	1 0 4 0
6.75	0.00	472	127	0.25	0.000737	10.40	2,470	0.715	3,103	3,470	1.040
0.77	0.07	100.0	4.22	0.25	0.0007.37	10.40	2,400	0.713	3.102	3.463	1.340
0.73	0.00	472	4.92	0.25	0.000040	10.49	2,400	0.715	3.102	3,403	1.347
2.0.0	0.34	47.6	127	0.25	0.000243	13.50	2,400	0.715	3.101	3,400	1.347
8.64	8.35	472	127	0.28	0.089455	19.50	2.467	0.716	3.183	3.467	1.949
0.07	0.37	472	4.92	0.20	0.0899749	19.51	2,400	0.716	3.102	3,400	1.949
0.03	3,00	47.6	147	0.20	0.003971	13.51	2,400	0.710	3.102	3,400	1.343
8.92	9.03	472	127	0.28	0.090255	19.52	2,465	0.719	3.184	3,465	1.951
0.30	3.00	473	4.27	0.20	0.000044	13.32	2,470	0.713	3.100	3,470	1.353
8.98	9.08	472	127	0.28	0.090841	19.53	2.464	0.719	3.182	3,464	1.950
9,00	9.11	472	127	0.20	0.091064	10.54	2,403	0.719	3.101	3,403	1.950
3,03	9.13	47.3	127	0.20	0.001547	13.34	2,407	0.715	3.100	3,407	1.352
9.05	9.16	473	127	0.28	0.091570	19.55	2,467	0.719	3.185	3.467	1.952
9.06	9.19	473	127	0.20	0.001603	13.35	2,400	0.721	3.107	3,400	1.354
9.11	9.21	473	127	0.28	0.092146	19.56	2,465	0.721	3.185	3,465	1.954
9.13	9.24	473	125	0.28	0.092369	19.55	2,465	0.724	3.189	3,465	1.956
9.16	9.27	4/3	125	0.28	0.092662	19.57	2,464	0.724	3.188	3.464	1.956
9.18	9.29	473	125	0.28	0.092875	19.57	2,463	0.724	3.187	3.463	1.956
9.21	9.52	475	126	0.28	0.093168	19.58	2,473	0.724	3.197	3,473	1.960
3.24	9.30	4/3	120	0.20	0.0035402	13.39	2,872	0.729	3,130	3,472	1.900
9.26	9.37	475	125	0.27	0.093674	19.59	2.471	0.727	3.198	3.471	1.963
9.29	9,40	475	126	0.27	0.093968	19.60	2.4/1	0.727	3.198	3.471	1.962
9.31	9.42	476	126	0.27	0.094180	19.60	2.475	0.727	3.202	3.475	1.965
9.34	9.45	476	126	0.27	0.094473	19.61	2,474	0.727	3.201	3,474	1.964
9.35	9.47	477	126	0.27	0.094696	19.61	2,479	0.730	3.209	3.479	1.969
9.39	9.50	478	126	0.27	0.094979	19.62	2.483	0.730	3.213	3.483	1.971
9.42	9.53	478	125	0.27	0.095273	19.65	Z.483	0.730	3.212	3.483	1.971
9.45	9.56	480	126	0.27	0.095566	19.63	2.492	0.730	3.222	3.492	1.976
9.47	9.58	480	125	0.27	0.095778	19.64	2.492	0.732	3.224	3.492	1.978
9.50	9.61	480	125	0.27	0.096072	19.64	2,491	0.732	3.225	3.491	1.978
9.53	9.64	481	125	0.27	0.096365	19.65	2.495	0.732	3.228	3,495	1.980
9.55	9.66	480	125	0.26	0.096578	19.65	2,489	0.735	3.225	3.489	1.980
9.58	9,69	481	125	0.26	0.096942	19.66	2.494	0.735	3.229	3,494	1.982
9.60	9.72	481	125	0.26	0.097165	19.67	2.493	0.735	3.228	3.493	1.982
9.63	9.74	482	125	0.26	0.097377	19.67	2,498	0.735	3.235	3.458	1.984
9.65	9.76	483	125	0.26	0.097600	19.68	2.502	0.735	3.237	3.502	1.986
9.68	9.79	482	125	0.26	0.097893	19.68	2.496	0.738	3.234	3.496	1.985
9.70	9.82	483	125	0.26	0.098176	19.69	2.501	0.738	3.239	3.501	1.988
9.73	9.84	483	125	0.26	0.098399	19.69	2.500	0.738	3.238	3.500	1.988
9.75	9.86	483	125	0.26	0.098621	19.70	2.499	0.741	3.240	3.499	1.990
9.78	9,89	484	125	0.26	0.098905	19.71	2.504	0.738	3.242	3.504	1.990
9.81	9.92	484	125	0.26	0.099198	19.71	2.503	0.741	3.244	3.503	1.992
9.83	9.95	485	125	0.26	0.099491	19.72	2.507	0.741	3.248	3.507	1.994
9.86	9.97	485	125	0.26	0.099704	19.72	2.507	0.741	3.248	3.507	1.994
9.88	10.00	485	124	0.26	0.099997	19.73	2.506	0.744	3.249	3.506	1.997
9.91	10.02	486	124	0.26	0.100220	19.73	2.510	0.744	3.254	3.510	1.999
9.93	10.05	485	124	0.26	0.100503	19.74	2.504	0.744	3.248	3.504	1.996
9.96	10.07	485	124	0.26	0.100726	19.75	2.504	0.744	3.247	3.504	1.996
9.99	10.10	486	124	0.25	0.101019	19.75	2.508	0.746	3.255	3.508	2.000
10.01	10.13	486	124	0.25	0.101302	19.76	2.507	0.746	3.254	3.507	2.000
10.04	10.15	486	124	0.25	0.101525	19.76	2.507	0.746	3.253	3.507	2.000
10.06	10.18	486	124	0.25	0.101818	19.77	2.506	0.746	3.252	3.506	1.999

	Deform.	Calda	Presión	Incremento		Åree	Estuerro	13	11	11	Erfuerzo
Deformación	Unitaria	Cargo	de poros	deports	Deform.	Correction	Dervindor	Efectivo	Electivo	Total	Promedio
(mm)	8	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
10.09	10.20	487	124	0.25	0.102031	19.77	2.511	0.746	3.257	3.511	2.002
10.11	10.23	487	124	0.25	0.102253	19.78	2.510	0.749	3,259	3.510	2.004
10.13	10.25	487	124	0.25	0.102466	19.78	2.509	0.749	3,258	3,509	2.004
10.16	10.28	487	124	0.25	0.102759	19.79	2.508	0.749	3.258	3,508	2.003
10.19	10.31	487	134	0.25	0.103053	19.80	2 508	0.749	3 257	3 508	2.003
10.21	10.33	487	123	0.25	0.103265	19.80	2.507	0.752	3,259	3.507	2.005
10.24	10.36	487	123	0.25	0.103559	19.81	2.506	0.752	3,258	3.506	2.005
10.26	10.38	487	128	0.25	0 103781	19.81	2 506	0.752	3 258	3,505	2.005
10.29	10.41	488	123	0.25	0.104064	19.82	2.510	0.755	3.265	3.510	2.010
10.31	10.43	487	123	0.25	0.104287	19.82	2.504	0.755	3,259	3.504	2.007
10.33	10.45	488	123	0.25	0.104499	19.83	2.509	0.755	3.264	3,509	2.009
10.35	10.47	487	123	0.25	0.104722	19.83	2.503	0.755	3.258	3.503	2.006
10.38	10.50	488	123	0.25	0.105015	19.84	2.507	0.755	3.262	3.507	2.008
10.40	10.52	488	123	0.24	0.105228	19.84	2.507	0.758	3.264	3.507	2.011
10.42	10.55	488	123	0.24	0.105450	19.85	2.506	0.758	3,264	3.506	2.011
10.45	10.57	488	123	0.24	0.105734	19.86	2.505	0.758	3.263	3.505	2.010
10.47	10.60	488	123	0.24	0.105956	19.86	2.505	0.758	3.262	3.505	2.010
10.50	10.62	489	123	0.24	0.106179	19.87	2.509	0.760	3.270	3,509	2.015
10.52	10.64	489	123	0.24	0.106391	19.87	2.509	0.760	3.269	3.509	2.015
10.55	10.67	489	123	0.24	0.106685	19.88	2.508	0.760	3.268	3.508	2.014
10.57	10.69	490	123	0.24	0.106897	19.88	2.512	0.760	3.273	3.512	2.016
10.59	10.71	489	122	0.24	0.107120	19.89	2.507	0.763	3.270	3.507	2.016
10.62	10.74	490	122	0.24	0.107413	19.89	2.511	0.763	3.274	3.511	2.019
10.64	10.76	490	122	0.24	0.107626	19.90	2.510	0.763	3.273	3.510	2.018
10.67	10.79	490	122	0.24	0.107919	19.90	2.509	0.763	3.273	3.509	2.018
10.69	10.81	490	122	0.23	0.108131	19.91	2.509	0.765	3.275	3.509	2.020
10.71	10.84	490	122	0.23	0.108354	19.91	2.508	0.765	3.274	3.508	2.020
10.74	10.86	491	122	0.23	0.108647	19.92	2.513	0.766	3.278	3.513	2.022
10.76	10.89	491	122	0.23	0.108850	19.93	2.512	0.766	3.278	3.512	2.022
10.78	10.91	491	122	0.23	0.109082	19.93	2.511	0.769	3.280	3.511	2.024
10.81	10.94	492	122	0.23	0.109376	19.94	2.516	0.769	3.284	3.516	2.026
10.83	10.96	492	122	0.23	0.109588	19.94	2.515	0.769	3.284	3.515	2.026
10.86	10.99	493	122	0.23	0.109882	19.95	2.519	0.769	3.288	3.519	2.028
10.89	11.02	493	122	0.23	0.110175	19.95	2.518	0.771	3.290	3.518	2.031
10.91	11.04	493	122	0.23	0.110388	19.96	2.518	0.771	3.289	3.518	2.030
10.93	11.06	494	122	0.23	0.110610	19.96	2.522	0.771	3.294	3.522	2.033
10.96	11.09	494	122	0.23	0.110893	19.97	2.521	0.771	3.293	3.521	2.032
10.98	11.11	494	122	0.23	0.111116	19.98	2.521	0.771	3.292	3.521	2.032
11.01	11.13	494	121	0.23	0.111339	19.98	2.520	0.774	3.294	3.520	2.034
11.03	11.16	494	122	0.23	0.111622	19.99	2.519	0.771	3.291	3.519	2.031
11.06	11.18	495	121	0.23	0.111844	19.99	2.524	0.774	3.298	3.524	2.036
11.08	11.21	495	121	0.23	0.112138	20.00	2.523	0.774	3.297	3.523	2.036
11.11	11.24	495	121	0.23	0.112350	20.00	2.522	0.774	3.297	3.522	2.035
11.13	11.26	495	121	0.22	0.112573	20.01	2.522	0.777	3.299	3.522	2.038
11.16	11.29	495	121	0.22	0.112856	20.02	2.521	0.777	3.298	3.521	2.038
11.18	11.31	495	121	0.22	0.113079	20.02	2.520	0.777	3.297	3.520	2.037
11.21	11.34	496	121	0.22	0.113372	20.03	2.525	0.777	3.302	3.525	2.039
11.23	11.36	496	121	0.22	0.113585	20.03	2.524	0.777	3.301	3.524	2.039
11.25	11.38	496	121	0.22	0.113807	20.04	2.523	0.780	3.303	3.523	2.042
11.28	11.41	497	121	0.22	0.114090	20.04	2.528	0.780	3.307	3.528	2.044
11.31	11.44	497	121	0.22	0.114384	20.05	2.527	0.780	3.307	3.527	2.043
11.33	11.46	497	120	0.22	0.114606	20.05	2.526	0.783	3.309	3.526	2.046

	Deform.	Celda	Presión	incremento		Åres	Erfuerzo	13	- 11	=1	Enfuerzo
Deformación	Unitaria	Carga	de poros	deporos	Deform.	Correction	Dervindor	Efectivo	Efectivo	Total	Promedio
(mm)	5	N	(kPa)	(kgt/cm <sup>2</sup> )	Uniteria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(last/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
11.35	11.48	497	120	0.22	0.114819	20.06	2.526	0.783	3,308	3.526	2.045
11.38	11.51	497	120	0.22	0.115112	20.07	2.525	0.783	3.307	3.525	2.045
11.40	11.53	497	120	0.22	0.115335	20.07	2.524	0.783	3,307	3.524	2.045
11.43	11.56	497	120	0.22	0.115618	20.08	2.523	0.783	3.306	3.523	2.044
11.45	11.58	496	120	0.22	0.115841	20.08	2.518	0.783	3,300	3.518	2.041
11.47	11.61	497	120	0.21	0.116053	20.09	2.522	0.785	3.307	3.522	2.046
11.49	11.63	496	120	0.21	0.116276	20.09	2.516	0.785	3.302	3.516	2.044
11.52	11.66	497	120	0.21	0.116569	20.10	2.521	0.785	3.306	3.521	2.046
11.54	11.68	497	120	0.21	0.116782	20.10	2.520	0.785	3.305	3.520	2.045
11.57	11.70	497	120	0.21	0.117004	20.11	2.519	0.788	3.308	3.519	2.048
11.59	11.72	498	120	0.21	0.117217	20.11	2.524	0.788	3.312	3.524	2.050
11.62	11.76	498	120	0.21	0.117581	20.12	2.523	0.788	3.311	3.523	2.050
11.65	11.79	499	120	0.21	0.117874	20.13	2.527	0.791	3.318	3.527	2.054
11.68	11.82	499	120	0.21	0.118168	20.14	2.526	0.788	3.314	3.526	2.051
11.71	11.85	499	120	0.21	0.118451	20.14	2.525	0.788	3.314	3.525	2.051
11.74	11.87	499	120	0.21	0.118744	20.15	2.525	0.791	3.315	3.525	2.053
11.76	11.90	500	120	0.21	0.118967	20.15	2.529	0.791	3.320	3.529	2.055
11.78	11.92	501	120	0.21	0.119179	20.16	2.533	0.791	3.324	3.533	2.058
11.81	11.95	501	119	0.21	0.119473	20.17	2.533	0.794	3.326	3.533	2.060
11.83	11.97	502	119	0.21	0.119695	20.17	2.537	0.794	3.331	3.537	2.062
11.86	12.00	503	119	0.21	0.119979	20.18	2.541	0.794	3.335	3.541	2.064
11.88	12.02	503	119	0.21	0.120201	20.18	2.541	0.794	3.334	3.541	2.064
11.91	12.05	505	119	0.21	0.120495	20.19	2.550	0.794	3.344	3.550	2.069
11.94	12.08	505	119	0.20	0.120778	20.20	2.549	0.797	3.346	3.549	2.071
11.96	12.10	506	119	0.20	0.121000	20.20	2.553	0.797	3.350	3.553	2.073
11.99	12.13	505	119	0.20	0.121294	20.21	2.547	0.797	3.344	3.547	2.070
12.01	12.15	506	119	0.20	0.121506	20.21	2.552	0.797	3.348	3.552	2.072
12.04	12.18	506	119	0.20	0.121800	20.22	2.551	0.797	3.348	3.551	2.072
12.07	12.21	506	119	0.20	0.122093	20.23	2.550	0.797	3.347	3.550	2.072
12.09	12.23	507	119	0.20	0.122305	20.23	2.555	0.799	3.354	3.555	2.077
12.12	12.26	508	119	0.20	0.122599	20.24	2.559	0.799	3.358	3.559	2.079
12.14	12.28	509	119	0.20	0.122811	20.24	2.563	0.799	3.363	3.563	2.081
12.17	12.31	509	119	0.20	0.123105	20.25	2.562	0.799	3.362	3.562	2.081
12.19	12.33	509	119	0.20	0.123327	20.25	2.562	0.799	3.361	3.562	2.080
12.22	12.36	510	118	0.20	0.123611	20.26	2.566	0.802	3.368	3.566	2.085
12.25	12.39	511	118	0.20	0.123904	20.27	2.570	0.802	3.372	3.570	2.087
12.27	12.41	511	118	0.20	0.124127	20.27	2.569	0.802	3.372	3.569	2.087
12.30	12.44	511	118	0.20	0.124410	20.28	2.569	0.805	3.374	3.569	2.089
12.32	12.46	511	118	0.20	0.124632	20.28	2.568	0.802	3.370	3.568	2.085
12.35	12.49	512	118	0.20	0.124926	20.29	2.572	0.802	3.374	3.572	2.088
12.37	12.51	511	118	0.20	0.125138	20.30	2.566	0.805	3.371	3.566	2.088
12.40	12.54	511	118	0.20	0.125432	20.30	2.566	0.805	3.371	3.566	2.088
12.43	12.57	511	118	0.20	0.125725	20.31	2.565	0.805	3.370	3.565	2.087
12.45	12.59	511	118	0.20	0.125938	20.31	2.564	0.805	3.369	3.564	2.087
12.48	12.62	511	118	0.20	0.126231	20.32	2.563	0.805	3.368	3.563	2.087
12.51	12.65	511	118	0.20	0.126524	20.33	2.562	0.805	3.367	3.562	2.085
12.53	12.67	512	118	0.19	0.126737	20.33	2.567	0.808	3.374	3.567	2.091
12.56	12.70	512	118	0.19	0.127030	20.34	2.566	0.808	3.374	3.566	2.091
12.58	12.73	512	118	0.19	0.127253	20.35	2.565	0.808	3.373	3.565	2.090
12.61	12.75	512	118	0.19	0.127536	20.35	2.564	0.810	3.375	3.564	2.093
12.63	12.78	512	118	0.19	0.127759	20.36	2.564	0.810	3.374	3.564	2.092
12.66	12.81	512	118	0.19	0.128052	20.36	2.563	0.810	3.373	3.563	2.092

	Delarm	Calda	<b>Presiden</b>	Incremento		Åres	Latenzo	13	- 11	=1	Lifuerzo
Deformación	Unitaria	Carga	de poros	deportos	Deform.	Correction	Dervindor	Efectivo	Efectivo	Total	Promedio
(mm)	56	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(log//cm <sup>2</sup> )	(logt/cm <sup>2</sup> )
12.68	12.83	\$12	118	0.19	0.128264	20.97	2562	0.810	3 973	3 562	2 092
12.00	12.86	512	117	0.19	0.128558	20.38	2 561	0.813	3 375	3 561	2 094
12.74	12.89	\$12	117	0.19	0.128851	20.38	2 561	0.813	3 374	3 561	2 094
12.76	12.91	\$15	117	0.19	0.125064	20.30	2 560	0.813	3 373	3 560	2.093
13.70	12.04	610	117	0.10	0.120004	30.30	2.500	0.013	2,277	3 564	2,005
12.73	12.39	513	117	0.19	0.129057	20.33	2.004	0.013	3.377	3,304	2,000
12.84	12.99	518	117	0.19	0.129934	20.41	2 562	0.813	3 376	3 562	2.094
13.07	10.00	040	4.47	0.10	0.120007	20.42	3 663	0.013	0.070	3 667	2,002
12.07	10.02	212	117	0.13	0.130227	20.42	2.33/	0.013	3,370	3.337	2,002
12.00	13,09	212	117	0.10	0.130450	20.42	2.339	0.010	3,372	3.359	2.004
12.92	13.07	512	117	0.18	0.130662	20.43	2.555	0.816	3.3/1	3,355	2.094
12.39	13.10	212	117	0.13	0.120200	20.40	2.009	0.015	3,300	3,339	2.000
12.37	13.12	513	117	0.10	0.131243	20.44	2.339	0.010	3,375	3.339	2,095
12.99	13.15	512	117	0.18	0.131461	20.44	2.553	0.816	3,365	3.553	2.093
13.02	13.18	513	117	0.18	0.131/55	20.45	2.557	0.816	3.3/3	3.557	2.095
13.04	13.20	513	117	0.18	0.131967	20.46	2.556	0.816	3.372	3.556	2.094
13.07	13.23	513	117	0.18	0.132261	20.45	2.556	0.815	3.372	3.556	2.094
13.10	13.25	513	11/	0.18	0.132483	20.47	2.555	0.819	3.374	3.555	2.095
13.12	13.28	513	117	0.18	0.132767	20.47	2.554	0.819	3.373	3.554	2.096
13.15	13.30	513	117	0.18	0.132989	20.48	2.553	0.819	3.372	3.553	2.096
13.17	13.33	513	11/	0.18	0.135283	20.49	2.553	0.819	3.371	3.553	2.095
13.20	13.35	513	117	0.18	0.133495	20.49	2.552	0.819	3.371	3.552	2.095
13.22	13.38	514	117	0.18	0.133788	20.50	2.556	0.819	3.375	3.556	2.097
13.25	13.41	514	116	0.18	0.134082	20.51	2.555	0.822	3.377	3.555	2.099
13.27	13.43	514	116	0.18	0.134294	20.51	2.555	0.822	3.376	3.555	2.099
13.30	13.46	514	116	0.18	0.134588	20.52	2.554	0.822	3.375	3.554	2.098
13.33	13.48	514	116	0.18	0.134810	20.52	2.553	0.822	3.375	3.553	2.098
13.35	13.51	515	116	0.18	0.135093	20.53	2.557	0.822	3.379	3.557	2.100
13.38	13.53	515	116	0.18	0.135316	20.54	2.556	0.822	3.378	3.556	2.100
13.40	13.56	516	116	0.18	0.135609	20.54	2.561	0.824	3.385	3.561	2.105
13.43	13.58	516	116	0.18	0.135822	20.55	2.560	0.822	3.382	3.560	2.102
13.45	13.61	516	116	0.18	0.136115	20.55	2.559	0.824	3.383	3.559	2.104
13.48	13.63	517	116	0.18	0.136328	20.56	2.563	0.824	3.388	3.563	2.106
13.50	13.66	516	116	0.18	0.136621	20.57	2.558	0.824	3.382	3.558	2.103
13.53	13.68	516	116	0.18	0.136844	20.57	2.557	0.824	3.381	3.557	2.103
13.55	13.71	516	116	0.18	0.137056	20.58	2.556	0.824	3.381	3.556	2.103
13.58	13.73	516	116	0.18	0.137350	20.58	2.555	0.824	3.380	3.555	2.102
13.60	13.76	517	116	0.17	0.137572	20.59	2.560	0.827	3.387	3.560	2.107
13.63	13.79	516	116	0.17	0.137855	20.60	2.554	0.827	3.381	3.554	2.104
13.65	13.81	517	116	0.17	0.138078	20.60	2.558	0.827	3.385	3.558	2.106
13.68	13.84	517	116	0.17	0.138371	20.61	2.557	0.827	3.385	3.557	2.106
13.70	13.86	517	116	0.17	0.138584	20.61	2.557	0.827	3.384	3.557	2.106
13.72	13.88	517	116	0.17	0.138806	20.62	2.556	0.827	3.383	3.556	2.105
13.75	13.91	517	116	0.17	0.139090	20.63	2.555	0.830	3.385	3.555	2.108
13.77	13.93	518	116	0.17	0.139312	20.63	2.559	0.830	3.389	3.559	2.110
13.79	13.95	517	116	0.17	0.139525	20.64	2.554	0.830	3.384	3.554	2.107
13.82	13.98	518	116	0.17	0.139818	20.64	2.558	0.830	3,388	3.558	2.109
13.84	14.00	518	116	0.17	0.140041	20.65	2.557	0.830	3.387	3.557	2.109
13.87	14.03	518	116	0.17	0.140824	20.65	2.556	0.830	3,386	3.556	2.108
13.89	14.05	518	115	0.17	0.140547	20.66	2.556	0.833	3.389	3.556	2.111
13.91	14.08	518	115	0.17	0.140769	20.67	2.555	0.833	3.388	3.555	2.110
13.94	14.11	518	115	0.17	0.141052	20.67	2.554	0.833	3.387	3.554	2.110
13.97	14.13	518	115	0.17	0.141346	20.68	2.553	0.833	3.386	3.553	2.109

	Deform.	Celda	Presiden	Incremento		Åres	Enfuerto	a'3	a'1	:1	Erfuerzo
Deformación	Uniteria	Cargo	de poros	deporos	Deform.	Corregida	Derviedor	Electivo	Efectivo	Total	Promedio
(mm)	5	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kg(/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(logt/cm <sup>2</sup> )
13.99	14.16	518	115	0.17	0.141568	20.68	2.553	0.833	3,386	3,553	2,109
14.02	14.19	519	115	0.17	0.141852	20.69	2.557	0.833	3.390	3.557	2.111
14.05	14.21	518	115	0.17	0.142145	20.70	2.551	0.833	3,384	3,551	2,108
14.07	14.24	519	115	0.17	0.142368	20.70	2.555	0.833	3.388	3.555	2.110
14.09	14.26	519	115	0.16	0.142580	20.71	2.555	0.836	3,390	3,555	2,113
14.12	14.29	519	115	0.16	0.142874	20.72	2.554	0.836	3.389	3.554	2.112
14.14	14.31	519	115	0.16	0.143086	20.72	2.553	0.836	3.389	3.553	2.112
14.17	14.34	519	115	0.16	0.143379	20.73	2.552	0.835	3.388	3.552	2.112
14.20	14.37	520	115	0.16	0.143673	20.74	2.556	0.838	3.395	3.556	2.117
14.22	14.39	519	115	0.16	0.143885	20.74	2.551	0.838	3.389	3.551	2.114
14.25	14.42	520	115	0.16	0.144179	20.75	2.555	0.838	3.393	3.555	2.116
14.27	14.44	520	115	0.16	0.144401	20.75	2.554	0.838	3.393	3,554	2.115
14.30	14.47	520	115	0.16	0.144684	20.76	2.553	0.838	3.392	3.553	2.115
14.32	14.49	521	115	0.16	0.144907	20.77	2.558	0.841	3.399	3.558	2.120
14.35	14.52	521	115	0.16	0.145200	20.77	2.557	0.841	3.398	3.557	2.119
14.37	14.54	522	115	0.16	0.145413	20.78	2.561	0.841	3.402	3.561	2.122
14.40	14.57	523	115	0.16	0.145706	20.78	2.565	0.841	3.406	3.565	2.124
14.42	14.59	523	115	0.16	0.145929	20.79	2.564	0.841	3.405	3.564	2.123
14.45	14.62	524	115	0.16	0.146212	20.80	2.568	0.841	3.410	3.568	2.125
14.48	14.65	524	114	0.16	0.146506	20.80	2.567	0.844	3.411	3.567	2.128
14.51	14.68	525	115	0.16	0.146799	20.81	2.571	0.841	3.413	3.571	2.127
14.53	14.70	526	114	0.16	0.147011	20.82	2.576	0.844	3.420	3.576	2.132
14.56	14.73	526	114	0.16	0.147305	20.82	2.575	0.844	3.419	3.575	2.131
14.58	14.75	527	114	0.16	0.147527	20.83	2.579	0.844	3.423	3.579	2.133
14.61	14.78	527	114	0.16	0.147811	20.84	2.578	0.844	3.422	3.578	2.133
14.63	14.80	528	114	0.15	0.148033	20.84	2.582	0.847	3.429	3.582	2.138
14.66	14.83	528	114	0.15	0.148327	20.85	2.582	0.847	3.428	3.582	2.137
14.68	14.85	528	114	0.15	0.148539	20.85	2.581	0.847	3.428	3.581	2.137
14.71	14.88	529	114	0.15	0.148832	20.86	2.585	0.847	3.432	3.585	2.139
14.73	14.90	529	114	0.15	0.149045	20.87	2.584	0.847	3.431	3.584	2.139
14.76	14.93	529	114	0.15	0.149338	20.87	2.583	0.847	3,430	3,583	2.138
14.79	14.96	529	114	0.15	0.149632	20.88	2.582	0.850	3.432	3.582	2.141
14.81	14.98	529	114	0.15	0.149844	20.89	2.582	0.850	3.431	3.582	2.140
14.83	15.01	530	114	0.15	0.150067	20.89	2.586	0.847	3.433	3.586	2.140
14.86	15.04	530	114	0.15	0.150360	20.90	2.585	0.850	3.435	3.585	2.142
14.88	15.06	530	114	0.15	0.150573	20.90	2.585	0.850	3.434	3.585	2.142
14.91	15.08	530	113	0.15	0.150795	20.91	2.584	0.852	3.436	3.584	2.144
14.93	15.11	531	113	0.15	0.151089	20.92	2.588	0.852	3.440	3.588	2.146
14.96	15.14	531	114	0.15	0.151372	20.92	2.587	0.850	3,436	3.587	2.143
14.98	15.16	531	113	0.15	0.151594	20.93	2.586	0.852	3.439	3.586	2.145
15.01	15.19	532	113	0.15	0.151888	20.94	2.590	0.852	3.443	3.590	2.147
15.03	15.21	531	113	0.15	0.152100	20.94	2.585	0.852	3.437	3.585	2.145
15.06	15.24	531	113	0.15	0.152394	20.95	2.584	0.852	3.436	3.584	2.144
15.08	15.26	531	113	0.15	0.152606	20.95	2.583	0.852	3.435	3.583	2.144
15.11	15.29	531	113	0.15	0.152900	20.96	2.582	0.852	3.435	3.582	2.143
15.14	15.31	532	113	0.14	0.153122	20.97	2.586	0.855	3.442	3.586	2.148
15.17	15.35	532	113	0.14	0.153486	20.98	2.585	0.855	3.440	3.585	2.148
15.19	15.37	533	113	0.14	0.153699	20.98	2.590	0.855	3.445	3.590	2.150
15.21	15.39	532	113	0.14	0.153921	20.99	2.584	0.855	3.439	3.584	2.147
15.24	15.42	532	113	0.14	0.154205	20.99	2.583	0.855	3,438	3.583	2.147
15.26	15.44	532	113	0.14	0.154427	21.00	2.582	0.855	3.438	3.582	2.146
15.29	15.46	532	113	0.14	0.154650	21.00	2.582	0.855	3.437	3.582	2.146

	Deform.	Celda	Presión	Incremento		Åres	Infuerzo	13	a'1	11	Enfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Dervisdor	Bectivo	Bectivo	Total	Promedio
(mm)	- 56	N	(kPa)	(kg//cm <sup>2</sup> )	Uniteria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(hgt/cm <sup>2</sup> )
15.31	15.49	532	113	0.14	0.154862	21.01	2.581	0.855	3,436	3.581	2.146
15.34	15.52	532	113	0.14	0.155156	21.02	2.580	0.858	3,438	3,580	2.148
15.36	15.54	588	113	0.14	0.155368	21.02	2 584	0.858	3.442	3 584	2 150
15.39	15.57	532	113	0.14	0.155662	21.03	2.579	0.858	3,437	3,579	2.147
15.42	15.60	532	113	0.14	0.155955	21.04	2 578	0.858	3.436	3 578	2 147
15.44	15.62	532	113	0.14	0.156167	21.04	2 577	0.858	3.435	3 577	2.146
15.46	15.64	531	113	0.14	0.156390	21.05	2.572	0.858	3,430	3.572	2.144
15.48	15.66	531	113	0.14	0.156602	21.05	2 571	0.858	3.429	3 571	2 143
15.51	15.69	531	113	0.14	0.156896	21.06	2 570	0.861	3.431	3 570	2 146
10.01	46.74	694	442	0.14	0.157110	21.02	3 540	0.001	0.400	2.570	3 145
15.33	15.71	531	113	0.14	0.157110	21.07	2.393	0.001	3,430	3.569	3.145
15.35	15.75	530	113	0.14	0.157551	21.09	2,500	0.001	3,423	3.563	2.140
45.60	40.70	200	443	0.14	0.457043	24.00	3.503	0.001	0.400	2.563	0.000
15.60	15.70	231	113	0.14	0.157047	21.06	2.397	0.001	3.920	3.307	2.199
15.62	15.01	231	115	0.14	0.158059	21.09	2.397	0.001	3.427	3.307	2.199
15.85	15.84	531	113	0.14	0.158353	21.10	2.566	0.861	3.426	3.566	2.143
15.87	15.86	551	112	0.14	0.158565	21.10	2.565	0.863	3.428	3,565	2.146
15.70	15.88	551	112	0.14	0.158/88	21.11	2.564	0.863	3.428	3.564	2.146
15.72	15.91	531	112	0.14	0.159081	21.12	2.563	0.863	3.427	3.563	2.145
15.75	15.93	531	112	0.14	0.159294	21.12	2.563	0.863	3.426	3.563	2.145
15.77	15.96	531	112	0.14	0.159587	21.13	2.562	0.863	3.425	3.562	2.144
15.80	15.98	531	112	0.13	0.159810	21.13	2.561	0.866	3.427	3.561	2.147
15.82	16.00	531	112	0.14	0.160022	21.14	2.561	0.863	3.424	3.561	2.144
15.85	16.03	531	112	0.14	0.160315	21.15	2.560	0.863	3.423	3.560	2.143
15.87	16.05	531	112	0.14	0.160528	21.15	2.559	0.863	3.422	3.559	2.143
15.90	16.08	531	112	0.13	0.160821	21.16	2.558	0.866	3.424	3.558	2.145
15.93	16.11	532	112	0.13	0.161115	21.17	2.562	0.866	3.428	3.562	2.147
15.95	16.13	531	112	0.13	0.161327	21.17	2.557	0.866	3.423	3.557	2.145
15.98	16.16	532	112	0.13	0.161620	21.18	2.561	0.866	3.427	3.561	2.146
16.00	16.18	532	112	0.13	0.161843	21.19	2.560	0.866	3.426	3.560	2.146
16.03	16.21	532	112	0.13	0.162126	21.19	2.559	0.866	3.425	3.559	2.146
16.05	16.23	532	112	0.13	0.162349	21.20	2.558	0.869	3.427	3.558	2.148
16.08	16.26	533	112	0.13	0.162642	21.21	2.562	0.869	3.431	3.562	2.150
16.10	16.29	533	112	0.13	0.162855	21.21	2.562	0.869	3.431	3.562	2.150
16.13	16.31	533	112	0.13	0.163148	21.22	2.561	0.869	3.430	3.561	2.149
16.15	16.34	534	112	0.13	0.163361	21.22	2.565	0.869	3.434	3.565	2.151
16.17	16.36	534	112	0.13	0.163583	21.23	2.564	0.869	3,433	3.564	2.151
16.20	16.39	534	112	0.13	0.163877	21.24	2.563	0.869	3,432	3.563	2.151
16.22	16.41	535	112	0.13	0.164089	21.24	2.567	0.869	3,436	3.567	2.153
16.25	16.44	535	111	0.13	0.164382	21.25	2.566	0.872	3,438	3,566	2.155
16.27	16.46	536	112	0.13	0.164605	21.26	2.571	0.869	3,440	3.571	2.154
16 30	16.49	536	111	0.13	0 164888	21.26	2 570	0.872	3.442	3 570	2 157
16.32	16.51	536	111	0.13	0.165111	21.27	2 569	0.872	3.441	3,569	2 156
16.04	10.00	697	111	0.12	0.1652333	21.22	3 573	0.973	2 4 4 5	9 579	3 159
16.37	16.56	696	111	0.13	0.165617	21.28	3 663	0.971	2,420	3 567	3 156
16.39	16.58	536	111	0.13	0.165839	21.29	2 567	0.872	3,439	3.567	2.155
16.41	16.04	200	444	0.12	0.166053	21.20	3 644	0.972	2,800	9 664	3 463
10.41	16.01	233	111	0.13	0.100002	21.29	3,560	0.672	3,433	3,361	2.132
16.44	16.03	200	444	0.13	0.100045	21.30	3 560	0.072	2,432	3,300	3 104
10.40	10.00	233	444	0.15	0.100008	21.31	2.300	0.075	3,434	3,300	3,409
10.49	10.00	2.54	111	0.13	0.100851	21.31	2.334	0.675	3,423	2,334	2.152
10.51	10.71	233	111	0.15	0.107074	21.32	2.338	0.675	3,433	3,356	2.139
16.54	16.73	5.56	111	0.13	0.157285	21.32	2.562	0.875	3.437	3.562	2.156
15.55	16.76	537	111	0.13	0.167579	21.33	2.566	0.875	3.441	3,566	2.158
	Deferm	Calda	Presiden	Incremento		Årea	Ertuento	13	11	=1	Erfuerzo
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Deformación	Unitaria	Carga	de poros	deportos	Deform.	Correction	Dervindor	Electivo	Electivo	Total	Promedio
(mm)	56	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(log//cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
16.59	16.78	538	111	0.13	0.167802	21.34	2.570	0.875	3,445	3,570	2,160
16.61	16.81	538	111	0.13	0.168085	21.34	2.569	0.875	3,444	3,569	2.159
16.64	16.83	539	111	0.13	0.168308	21.35	2.574	0.875	3.448	3.574	2.161
16.67	16.86	539	111	0.13	0.168601	21.36	2.573	0.875	3,447	3.573	2.161
16.69	16.88	540	111	0.12	0.168814	21.36	2 577	0.877	3.454	3 577	2 166
16.72	16.91	540	111	0.12	0.169107	21.37	2.576	0.877	3,453	3,576	2.165
16.74	16.93	540	111	0.12	0.169320	21.38	2.575	0.877	3,453	3,575	2.165
16.77	16.96	542	111	0.12	0.169613	21.38	2.584	0.877	3.461	3 584	2 169
16.79	16.98	543	111	0.12	0.169836	21.39	2,588	0.877	3,465	3,588	2,171
16.82	17.01	544	111	0.12	0.170119	21.40	2 592	0.877	3.469	3 592	2 173
16.84	17.04	545	111	0.12	0.170412	21.40	2 596	0.877	3.473	3 596	2 175
16.87	17.07	546	111	0.12	0.170706	21.41	2,599	0.877	3,477	3,599	2.177
16.89	17.09	547	111	0.12	0.170918	21.42	2.604	0.877	3.481	3.604	2 179
16.92	17.12	547	111	0.12	0.171211	21.42	2,603	0.880	3.483	3,603	2 181
16.95	17.15	547	111	0.12	0.171505	21.43	2.602	0.880	3.482	3,602	2 181
16.97	17.17	548	111	0.12	0.171727	21.44	2.606	0.880	3 486	3,605	2 183
17.00	17.20	548	111	0.12	0.172011	21.45	2.605	0.880	3,485	3,605	2.183
17.02	17.99	549	111	0.12	0.172233	21.45	2,609	0.880	3.489	3,609	2 185
17.05	17.24	549	111	0.12	0.172446	21.46	2.608	0.880	3 488	3,608	2 184
17.07	17.27	549	111	0.12	0.172739	21.46	2.607	0.880	3.487	3.607	2 184
17.10	17.30	549	111	0.12	0.173033	21.47	2.606	0.880	3 487	3,605	2 183
17.12	17.32	549	111	0.12	0.173245	21.48	2.606	0.880	3.486	3,605	2 183
17.15	17.95	EE0		0.13	0.179469	21.48	2,610	0.990	2,400	2 610	3 195
17.18	17.33	550	110	0.12	0.173761	21.49	2.609	0.883	3,492	3,609	2.187
17.20	17.40	551	110	0.12	0.173973	21.50	2.613	0.883	3,496	3,613	2 189
17.32	17.49	664	1.50	0.12	0.174367	21.50	2,612	0.993	2.405	2 613	3 199
17.25	17.46	552	110	0.12	0.174560	21.51	2.616	0.883	3,499	3,616	2 191
17.30	17.49	663	1.50	0.12	0.174044	24.62	2010	0.000	3,409	3 616	3 100
17.20	17.40	224	1.50	0.12	0.175066	21.32	2.015	0.000	2,420	3.013	2.100
17.30	17.51	552	110	0.12	0.175000	21.52	2.619	0.883	3,497	3,613	2.190
17.05	17.54	663	1.50	0.12	0.175573	21.54	2,610	0.993	2 405	0.010	3 100
17.35	17.50	202	110	0.12	0.175765	21.39	2,613	0.003	3,499	3.013	2.109
13.30	17.00	222	1.00	0.12	0.13.33.33	24.00	2.011	0.000	3,493	2.011	3.100
17.40	17.01	222	1.00	0.12	0.176076	21.35	2.011	0.000	3,494	3.011	2.100
17.45	17.64	202	110	0.12	0.176571	21.30	2.610	0.003	3,493	3.610	2.100
17.40	17.00	004	4.40	0.11	0.170224	24.62	3,000	0.000	3,400	3,000	3.100
17.40	17.00	201	1.50	0.11	0.170077	21.57	2.009	0.000	3,403	3,004	2.100
17.51	471713	222	1.00	0.11	0.177100	21.30	2.000	0.000	3,493	3.000	2.100
17.53	17.73	252	110	0.11	0.177372	21.58	2.607	0.885	3,493	3.607	2.189
17.50	17.70	202	1.50	0.11	0.177939	21.39	2.000	0.000	3,492	3.000	2.103
17.50	17.70	222	1.00	0.11	0.177020	21.00	2.010	0.000	3,499	3.610	2.131
17.61	17.01	222	1.00	0.11	0.170121	21.00	2.004	0.000	3,400	3.004	2.100
17.65	17.63	223	1.00	0.11	0.1/6334	21.01	2.009	0.000	3,494	3.609	2.190
17.65	17.86	552	110	0.11	0.178627	21.62	2.603	0.885	3,489	3.603	2.187
17.89	17.89	253	110	0.11	0.178971	21.63	2.607	0.685	3,492	3.607	2.189
17.71	17.31	203	110	0.11	0.1/9133	21.85	2.000	0.685	3,492	3.000	2.189
17.74	17.94	553	110	0.11	0.179427	21.64	2.605	0.885	3,491	1.605	2.188
17.76	17.56	253	110	0.11	0.179639	21.64	2.604	6889	3,493	3.604	2.191
17.79	17.99	223	110	0.11	0.179952	21.65	2.603	0.685	3,492	3.603	2.190
1/.81	18.02	553	110	0.11	0.180226	21.65	2.603	6889	3,491	3.603	2.190
17.84	18.04	252	110	0.11	0.180438	21.67	4.597	699.0	3,465	3.397	2.187
1/.86	18.07	552	110	0.11	0.180661	21.67	2.596	0.889	3.485	3.596	2.187
17.89	18.10	552	110	0.11	0.180954	21.68	Z.556	0.889	3.484	3.556	2.185

	Delarm	Califa	Draskin	Incremento		Åres	Enforcement	- 63	a'1		Erfuerzo
Deformación	Unitaria	Carga	de poros	deportos	Deform.	Correcide	Dervision	Bectivo	Electivo	Total	Promedio
(mm)	5	N	(kPa)	(ket/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(ket/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(hat/cm <sup>2</sup> )	(ket/cm <sup>2</sup> )
17.01	10.13	004	110	0.11	0.191167	31.60	3 560	0.996	2.476	2 560	3 104
17.94	18.15	551	110	0.11	0.181460	21.69	2.589	0.891	3,481	3,589	2.186
17.96	18 17	551	110	0.11	0 181683	21.70	2 589	0.889	3.477	3 589	2 183
17.99	18,20	551	110	0.11	0.181955	21.71	2.588	0.889	3,476	3,588	2 182
18.01	18.22	552	110	0.11	0 182189	21.71	2 592	0.891	3.483	3 592	2 187
18.03	18.24	551	110	0.11	0.182401	21.72	2.586	0.891	3,478	3.586	2.184
18.06	18.27	552	110	0.11	0.182694	21.73	2.590	0.891	3,481	3.590	2.186
18.09	18,30	552	110	0.11	0.182988	21.73	2.589	0.891	3,480	3.589	2.186
18.12	18.33	552	110	0.11	0.183281	21.74	2.588	0.891	3,479	3.588	2.185
18.14	18,35	553	110	0.11	0.183494	21.75	2.592	0.891	3,483	3,592	2.187
18.17	18.38	553	110	0.11	0.183787	21.75	2.591	0.891	3.483	3.591	2.187
18.19	18.40	553	110	0.11	0.183999	21.76	2.591	0.891	3.482	3.591	2.187
18.22	18.43	553	110	0.11	0.184293	21.77	2.590	0.891	3.481	3.590	2.186
18.25	18.46	553	110	0.11	0.184586	21.78	2.589	0.891	3.480	3.589	2.186
18.27	18,48	554	110	0.11	0.184799	21.78	2.593	0.891	3,484	3.593	2.188
18.29	18.50	553	110	0.11	0.185021	21.79	2.587	0.891	3.479	3.587	2.185
18.31	18.52	553	110	0.11	0.185244	21.79	2.587	0.891	3.478	3.587	2.185
18.34	18,55	553	110	0.11	0.185527	21.80	2.586	0.891	3,477	3,586	2.184
18.36	18.57	553	110	0.11	0.185750	21.81	2.585	0.891	3,476	3.585	2.184
18.39	18,60	553	109	0.11	0.186043	21.81	2.584	0.894	3.478	3.584	2.186
18.41	18.63	553	109	0.11	0.186256	21.82	2.583	0.894	3,477	3,583	2,186
18.43	18,65	553	109	0.11	0.186478	21.83	2.583	0.894	3,477	3.583	2.185
18.46	18,68	553	109	0.11	0.186761	21.83	2.582	0.894	3,476	3,582	2.185
18.49	18,71	553	109	0.11	0.187055	21.84	2.581	0.894	3,475	3.581	2.185
18.51	18,73	553	109	0.11	0.187277	21.85	2.580	0.894	3,474	3,580	2.184
18 53	18.75	553	109	0.11	0 187490	21.85	2 579	0.894	3 474	3 579	2 184
18.55	18.77	554	109	0.11	0.187712	21.86	2.583	0.894	3,478	3.583	2.186
18 58	18.80	553	109	0.11	0 187996	21.87	2 578	0.894	3.472	3 578	2 183
18.60	18.82	553	109	0.10	0.188218	21.87	2.577	0.897	3,474	3,577	2.185
18.63	18.84	553	109	0.10	0.188441	21.88	2.576	0.897	3,473	3.576	2.185
18.65	18.87	553	109	0.10	0 188724	21.89	2 576	0.897	3.472	3 576	2 185
18.68	18,89	553	109	0.10	0.188947	21.89	2.575	0.897	3,472	3,575	2.184
18 70	18.92	553	109	0.10	0 189159	21.90	2 574	0.897	3.471	3 574	2 184
18.73	18.95	554	109	0.10	0.189453	21.91	2.578	0.897	3,475	3.578	2.186
18,75	18.97	554	109	0.10	0.189675	21.91	2.577	0.897	3,474	3.577	2.185
18.77	18,99	554	109	0.10	0.189888	21.92	2.577	0.897	3,473	3.577	2.185
18.80	19.02	555	109	0.10	0.190181	21.93	2.580	0.900	3,480	3,580	2,190
18.82	19.04	554	109	0.10	0 190404	21.93	2 575	0.897	3.472	3 575	2 184
18.85	19.07	555	109	0.10	0.190687	21.94	2 579	0.897	3.475	3 579	2 186
18.87	19.09	555	109	0.10	0.190909	21.95	2.578	0.897	3,475	3,578	2.186
18.90	19.12	555	109	0.10	0 191203	21.95	2 577	0.897	3.474	3 577	2 185
18.92	19.14	555	109	0.10	0.191415	21.96	2.576	0.900	3,476	3,576	2.188
18.95	19.17	555	109	0.10	0.191709	21.97	2.575	0.900	3.475	3,575	2 187
18.97	19.19	555	109	0.10	0 191921	21.97	2 575	0.900	3 474	3 575	2 187
19.00	19.22	555	109	0.10	0.192215	21.98	2.574	0.900	3,473	3,574	2,187
19.02	19.24	555	109	0.10	0 192437	21.99	2 579	0.900	3.473	8 678	2 186
19.05	19.27	555	109	0.10	0.192720	22.00	2.572	0.900	3,472	3,572	2,186
19.08	19 30	555	109	0.10	0.193014	22.00	2.571	0.900	3,471	3,571	2,185
19.10	19 32	900	109	0.10	0 193236	22.04	2 570	0.900	3,470	3,570	2 1 8 5
19 12	19.34	555	109	0.10	0.193449	22.02	2.570	0.900	3,469	3,570	2,185
19.15	19.97	555	109	0.10	0 193742	22.02	2 569	0.900	3,469	3 669	2 184
19.17	19.40	555	109	0.10	0.193955	22.08	2.568	0,900	3,468	3,568	2,184

	Deform.	Celda	Presión	Incremento		Åres	Esterno	:3	a'1	:1	Effuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Dervindor	Efectivo	Efectivo	Total	Promedio
(mm)		N	(kPa)	(kg//cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgl/cm <sup>2</sup> )	(kgi/cm*)	(lat/cm <sup>2</sup> )	(lat/cm <sup>2</sup> )
19.19	19.42	556	109	0.10	0.194177	22.04	2.572	0.900	3.472	3.572	2.186
19.22	19.45	556	109	0.10	0.194471	22.04	2.571	0.900	3.471	3.571	2.185
19.25	19.48	556	109	0.10	0.194754	22.05	2.570	0.900	3.470	3.570	2.185
19.28	19.50	557	109	0.10	0.195047	22.06	2.574	0.900	3.474	3.574	2.187
19.30	19.53	556	108	0.10	0.195270	22.07	2.569	0.902	3.471	3.569	2.187
19.33	19.56	557	108	0.10	0.195553	22.07	2.572	0.902	3.475	3.572	2.189
19.36	19.58	557	108	0.10	0.195847	22.08	2.571	0.902	3.474	3.571	2.188
19.38	19.61	558	108	0.10	0.196069	22.09	2.575	0.902	3.478	3.575	2.190
19.41	19.64	559	108	0.10	0.196352	22.09	2.579	0.902	3.481	3.579	2.192
19.43	19.66	559	108	0.10	0.196575	22.10	2.578	0.902	3.481	3.578	2.192
19.46	19.69	560	108	0.10	0.196868	22.11	2.582	0.902	3.484	3.582	2.193
19.48	19.71	561	108	0.10	0.197081	22.11	2.586	0.902	3.488	3.586	2.195
19.52	19.74	561	108	0.10	0.197445	22.12	2.585	0.902	3.487	3.585	2.195
19.54	19.77	562	108	0.10	0.197668	22.13	2.589	0.902	3.491	3.589	2.197
19.57	19.80	562	108	0.10	0.197961	22.14	2.588	0.902	3,490	3.588	2.195
19.60	19.82	562	108	0.10	0.198244	22.15	2.587	0.902	3.489	3.587	2.196
19.62	19.85	562	108	0.09	0.198467	22.15	2.586	0.905	3.491	3.586	2.198
19.65	19.88	562	108	0.09	0.198760	22.16	2.585	0.905	3.490	3.585	2.198
19.67	19.90	564	108	0.09	0.199044	22.17	2.593	0.905	3.499	3.593	2.202
19.70	19.93	564	108	0.09	0.199266	22.18	2.593	0.905	3.498	3.593	2.202
19.73	19.96	565	108	0.09	0.199560	22.18	2.596	0.905	3.502	3.596	2.203
19.75	19.98	565	108	0.09	0.199843	22.19	2.595	0.905	3.501	3.595	2.203
19.78	20.01	565	108	0.09	0.200065	22.20	2.595	0.905	3.500	3.595	2.203
19.80	20.03	565	108	0.09	0.200278	22.20	2.594	0.905	3.499	3.594	2.202
19.83	20.06	565	108	0.09	0.200571	22.21	2.593	0.905	3,498	3.593	2.202
19.85	20.08	565	108	0.09	0.200794	22.22	2.592	0.905	3.498	3.592	2.201
19.88	20.11	565	108	0.09	0.201077	22.23	2.591	0.905	3.497	3.591	2.201
19.90	20.14	566	108	0.09	0.201371	22.23	2.595	0.908	3.503	3.595	2.206
19.93	20.18	566	108	0.09	0.201593	22.24	2.594	0.908	3.502	3.594	2.205
19.95	20.19	200	108	0.09	0.201876	12.25	2.593	0.905	3,499	3.593	2.202
19.98	20.22	567	108	0.09	0.202170	22.26	2.597	0.905	3.502	3.597	2.204
20.01	20.24	200	108	0.09	0.202392	22.25	2.592	0.908	3.500	3.592	2.204
20.03	20.26	567	108	0.09	0.202605	22.27	2.596	0.908	3.504	3.596	2.206
20.06	20.29	268	108	0.09	0.202898	22.28	2.599	0.908	3.507	3.599	2.208
20.06	20.32	200	100	0.09	0.205152	12.20	4.390	0.306	3.309	3.370	2.207
				Et.a.e	a da falla ta						
				le contra de la		Rear Increase	Education 1	-21	- 21	-1	Laborator
Deformación	Uniteda	Cerce	de portes	descent	Deform.	Correction	Developer	Dection	Berthon	Total	Promedia
(mm)	×	N	(kPa)	(kg//cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
0.00	0.00	0	79	0.00	0.000000	17.09	0.000	2 000	2,000	2 000	2,000
0.03	0.03	4	79	0.00	0.000283	17.09	0.024	2.000	2.024	2.024	2.012
0.05	0.05	7	79	0.00	0.000505	17.10	0.042	2.000	2.042	2.042	2.021
0.07	0.07	10	79	0.00	0.000717	17.10	0.060	2.000	2.060	2.060	2.030
0.09	0.09	15	79	0.00	0.000939	17.11	0.089	1.997	2.087	2.089	2.042
0.11	0.12	46	80	0.01	0.001151	17.11	0.274	1.994	2.269	2.274	2.131
0.13	0.13	74	81	0.01	0.001303	17.11	0.441	1.986	2.427	2.441	2.206
0.15	0.15	94	81	0.02	0.001515	17.12	0.560	1.980	2.540	2.560	2.260
0.17	0.17	113	82	0.03	0.001737	17.12	0.673	1.969	2.642	2.673	2.306
0.19	0.19	129	83	0.04	0.001949	17.12	0.768	1.964	2.732	2.768	2.348
0.22	0.22	143	84	0.04	0.002171	17.13	0.851	1.955	2.807	2.851	2.381

	Deform.	Celda	Presión	Incremento		Åren	Estuenzo	s'3	11	=1	Enfuerzo
Deformación (mm)	Unitaria N	Carga	de poros (kPa)	deporos (kgt/cm <sup>2</sup> )	Deform. Unitaria	Corregida (cm <sup>2</sup> )	Dervindor (kgt/cm <sup>2</sup> )	Efectivo (kgi/cm²)	Electivo (kgl/cm <sup>*</sup> )	Total (kgf/cm²)	Promedio (kgt/cm <sup>2</sup> )
0.24	0.24	156	84	0.05	0.002393	17.13	0.928	1947	2.875	2 928	2 4 1 1
0.26	0.26	168	85	0.06	0.002605	17.13	1,000	1941	2 941	3,000	2 441
0.29	0.29	178	86	0.07	0.002898	17.14	1.059	1980	2 989	3.059	2.460
0.31	0.31	188	87	0.08	0.003110	17.14	1.118	1922	3.040	3,118	2,481
0.33	0.33	197	88	0.08	0.003332	17.15	1 171	1916	3.088	3 171	2 502
0.36	0.36	205	89	0.09	0.003625	17.15	1.218	1.905	3.124	3,218	2.514
0.38	0.38	213	89	0.10	0.003837	17.15	1.266	1.900	3.165	3.266	2.533
0.40	0.41	220	90	0.11	0.004060	17.16	1.307	1.891	3.198	3.307	2.545
0.42	0.43	227	91	0.12	0.004272	17.16	1.348	1.883	3,231	3.348	2.557
0.45	0.46	234	91	0.12	0.004564	17.17	1.389	1.877	3.267	3.389	2.572
0.47	0.48	240	93	0.13	0.004787	17.17	1.425	1.865	3,291	3.425	2.579
0.50	0.50	246	93	0.14	0.004999	17.17	1.460	1.858	3.318	3.460	2.588
0.52	0.53	252	94	0.15	0.005292	17.18	1.495	1.850	3.345	3,495	2.597
0.55	0.55	259	95	0.16	0.005504	17.18	1.536	1.841	3.378	3.536	2.609
0.57	0.57	264	96	0.16	0.005726	17.19	1.566	1.836	3,401	3,566	2.618
0.59	0.59	269	96	0.17	0.005948	17.19	1.595	1.827	3,422	3.595	2.625
0.61	0.62	275	97	0.18	0.006160	17.20	1.630	1.819	3,449	3.630	2.634
0.64	0.65	280	98	0.19	0.006453	17.20	1.659	1.810	3,470	3,659	2.640
0.66	0.67	285	99	0.20	0.006665	17.20	1.689	1.802	3,491	3.689	2.646
0.69	0.70	290	100	0.21	0.006958	17.21	1.718	1.794	3.512	3.718	2.653
0.71	0.72	295	100	0.21	0.007180	17.21	1,747	1,788	3.535	3,747	2.662
0.73	0.74	301	101	0.22	0.007392	17.22	1.782	1.780	3.562	3.782	2.671
0.76	0.77	305	102	0.23	0.007685	17.22	1.805	1.771	3.577	3,805	2.674
0.78	0.79	311	103	0.23	0.007897	17.23	1.840	1,766	3,606	3.840	2.686
0.80	0.81	315	103	0.24	0.008119	17.23	1.864	1.758	3.621	3.864	2.689
0.83	0.84	319	104	0.25	0.008412	17.23	1.887	1,749	3.636	3.887	2.693
0.85	0.86	324	105	0.26	0.008624	17.24	1.916	1.741	3.657	3.916	2.699
0.88	0.89	328	106	0.26	0.008917	17.24	1.939	1,735	3.674	3,939	2,705
0.91	0.91	332	106	0.27	0.009139	17.25	1.962	1.727	3.689	3.962	2.708
0.93	0.94	336	107	0.28	0.009351	17.25	1.986	1.719	3.704	3.986	2.711
0.96	0.96	340	108	0.29	0.009644	17.26	2.009	1.713	3.721	4.009	2.717
0.98	0.99	345	109	0.30	0.009856	17.26	2.038	1.705	3.742	4.038	2.723
1.01	1.01	349	109	0.30	0.010149	17.26	2.061	1.699	3,760	4.061	2,729
1.03	1.04	353	110	0.31	0.010371	17.27	2.084	1.691	3.774	4.084	2.733
1.06	1.07	356	111	0.31	0.010654	17.27	2.101	1.685	3.786	4.101	2.736
1.08	1.09	360	111	0.32	0.010876	17.28	2.124	1.677	3.801	4.124	2.739
1.11	1.12	365	112	0.33	0.011169	17.28	2.153	1.668	3.821	4.153	2.745
1.13	1.14	368	113	0.34	0.011381	17.29	2.170	1.663	3.833	4.170	2.748
1.16	1.17	372	114	0.35	0.011674	17.29	2.193	1.654	3.847	4.193	2.751
1.18	1.19	375	114	0.35	0.011896	17.29	2.210	1.649	3.859	4.210	2.754
1.21	1.22	379	115	0.36	0.012179	17.30	2.233	1.640	3.874	4.233	2.757
1.23	1.24	383	116	0.37	0.012401	17.30	2.256	1.635	3.891	4.256	2.763
1.25	1.26	386	116	0.37	0.012613	17.31	2.273	1.627	3.900	4.273	2.763
1.28	1.29	390	117	0.38	0.012906	17.31	2.296	1.621	3.917	4.296	2.769
1.31	1.32	393	118	0.38	0.013199	17.32	2.313	1.615	3.929	4.313	2.772
1.32	1.33	397	118	0.39	0.013340	17.32	2.337	1.607	3.944	4.337	2.775
1.35	1.36	400	119	0.40	0.013633	17.33	2.353	1.601	3.955	4.353	2.778
1.38	1.39	403	120	0.41	0.013926	17.33	2.370	1.593	3.964	4.370	2.778
1.40	1.41	406	120	0.41	0.014138	17.33	2.388	1.588	3.975	4.388	2.781
1.43	1.44	409	121	0.42	0.014431	17.34	2.404	1.582	3.986	4.404	2.784
1.45	1.46	412	122	0.42	0.014643	17.34	2.422	1.576	3.998	4.422	2.787
1.48	1.49	416	122	0.43	0.014935	17.35	2.444	1.568	4.012	4.444	2.790

	Deform.	Celda	Presión	incremento		Åres	Lifuerto -	13	11	:1	Erfuerzo
Deformación	Unitaria	Cargo	de poros	deportos	Deform.	Correction	Derviedor	Electivo	Dectivo	Total	Promedio
(mm)	5	N	(kPa)	(ket/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kuf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(logf/cm <sup>2</sup> )	(kat/cm <sup>2</sup> )
1.50	1.53	410	4.99	0.44	0.045459	17.05	3.464	1563	4.034	4.461	3 702
1 53	1 55	400	132	0.44	0.015450	17.94	3,479	1 557	4.095	4 479	2,796
1 55	4 6 7	410	4.34	0.45	0.045660	47.00	3,400	4 6 6 4	4.047	4,490	3 300
1.55	1.57	40	1.09	0.45	0.015055	17.30	2,400	1.501	4.055	4,610	2.799
1.50	1.00	440	4.52	0.40	0.042423	47.37	2.512	1.545	4.000	4.512	5.005
1.60	1.02	431	123	0.40	0.016167	17.37	2.523	1.537	4.029	4.323	2.002
1.03	1.63	497	100	0.47	0.016683	17.30	2.540	1.532	4.099	4.540	2.000
1.00	4.70	430	4.32	0.49	0.010005	47.00	2,000	4 6 3 4	4.005	4 574	3,000
1.00	1.70	430	127	0.40	0.0121925	17.30	2.579	1.521	4.005	4.574	2,000
1.70	4.72		4.00	0.40	0.017107	17.39	2.391	1.515	4.100	4.391	2.011
1.73	1.73	447	120	0.45	0.017680	17.39	2.502	1.509	4.112	4,602	2.011
1.73	1.77	450	123	0.50	0.017032	17.40	2.013	1.304	4,123	4.013	2.013
1.00	4.00	400	4.00	0.00	0.017914	47.44	3,030	1,100	1.1.10	4.000	0.040
1.00	1.04	402	130	0.51	0.01010107	17.41	2.097	1,493	4.101	4.047	2.010
1.02	1.09	400	130	0.51	0.010415	17.91	2.004	1.407	4.151	4.004	2.013
1.85	1.87	457	131	0.52	0.018/12	17.41	2.575	1.482	4.157	4.675	2.819
1.00	1.30	400	132	0.52	0.018035	17.42	2.032	1,470	9,100	4.092	2.022
1.50	1.32	403	132	0.55	0.015217	17.42	2.300	1,470	4.1/9	4.703	2.025
1.93	1.95	460	133	0.54	0.019510	17.43	2.720	1.465	4.185	4.720	2.825
1.95	1.97	467	133	0.54	0.019722	17.43	2.751	1.459	4,190	4.731	2.825
1.70	1.33	400	139	0.35	0.017944	17,44	2.142	1,434	4,139	4.742	2.023
2.00	2.02	4/1	134	0.55	0.020237	17.44	2.753	1.451	4.204	4.753	2.827
2.03	2.04	474	135	0.55	0.020449	17.45	2.770	1.445	4.215	4.770	2.830
2.05	2.07	476	135	0.56	0.020671	17.45	2.781	1.440	4.220	4.781	2.830
2.08	2.10	478	135	0.56	0.020954	17.45	2.792	1,437	4.229	4.792	2.833
2.10	2.12	480	136	0.57	0.021176	17.46	2.803	1.429	4.231	4.803	2.830
2.13	2.15	482	137	0.57	0.021469	17.46	2.813	1.426	4.239	4.813	2.833
2.15	2.17	484	137	0.58	0.021681	17.47	2.824	1.420	4.245	4.824	2.833
2.17	2.19	486	137	0.58	0.021903	17.47	2.835	1.418	4.253	4.835	2.835
2.20	2.22	488	138	0.59	0.022196	17.48	2.846	1.412	4.258	4.846	2.835
2.22	2.24	490	139	0.59	0.022408	17.48	2.857	1.405	4.264	4.857	2.835
2.25	2.27	492	139	0.60	0.022701	17.49	2.868	1.404	4.272	4.868	2.838
2.27	2.29	493	139	0.60	0.022913	17.49	2.873	1.398	4.271	4.873	2.835
2.29	2.31	496	140	0.60	0.023135	17.49	2.890	1.395	4.285	4.890	2.840
2.32	2.34	498	140	0.61	0.023428	17.50	2.901	1.390	4.291	4.901	2.840
2.34	2.36	500	140	0.61	0.023640	17.50	2.912	1.387	4.299	4.912	2.843
2.37	2.39	501	141	0.62	0.023933	17.51	2.917	1.381	4.298	4.917	2.840
2.39	2.41	503	141	0.62	0.024145	17.51	2.928	1.378	4.306	4.928	2.842
2.42	2.44	505	142	0.63	0.024438	17.52	2.939	1.373	4.312	4.939	2.842
2.44	2.47	508	142	0.63	0.024660	17.52	2.956	1.370	4.326	4.956	2.848
2.46	2.49	509	142	0.63	0.024872	17.53	2.961	1.367	4.328	4.961	2.848
2.49	2.52	512	143	0.64	0.025165	17.53	2.977	1.362	4.339	4.977	2.850
2.51	2.54	513	143	0.64	0.025387	17.53	2.982	1.359	4.341	4.982	2.850
2.54	2.56	515	144	0.64	0.025599	17.54	2.993	1.356	4.350	4.993	2.853
2.56	2.59	517	144	0.65	0.025892	17.54	3.004	1.351	4.355	5.004	2.853
2.59	2.62	518	144	0.65	0.026185	17.55	3.009	1.348	4.357	5.009	2.852
2.61	2.64	520	145	0.66	0.026397	17.55	3.020	1.342	4.362	5.020	2.852
2.64	2.67	522	145	0.66	0.026690	17.56	3.031	1.339	4.370	5.081	2.855
2.66	2.69	524	145	0.66	0.026902	17.56	3.042	1.337	4.378	5.042	2.857
2.69	2.72	525	146	0.67	0.027195	17.57	3.046	1.334	4.380	5.046	2.857
2.72	2.74	527	146	0.67	0.027417	17.57	3.057	1.331	4.388	5.057	2.860
2.74	2.76	529	146	0.67	0.027629	17.57	3.068	1.328	4.397	5.068	2.862
2.77	2.79	530	147	0.68	0.027922	17.58	3.073	1.323	4.396	5.073	2.859

	Deform.	Celda	Presión	Incremento		Åres	Estuenco	13	11	=1	Erfuerzo
Deformación	Unitaria	Cargo	de poros	deportos	Deform.	Correction	Dervindor	Bectivo	Bectivo	Total	Promedio
(mm)	56	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kg(/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(log1/cm <sup>2</sup> )	(logi/cm <sup>2</sup> )
2.79	2.81	532	147	0.68	0.028144	17.58	3.084	1.320	4.404	5.084	2.862
2.82	2.84	533	147	0.68	0.028427	17.59	3.089	1.317	4.406	5.089	2.862
2.84	2.86	536	148	0.69	0.028649	17.59	3.106	1.314	4.420	5.106	2.867
2.87	2.89	537	148	0.69	0.028942	17.60	3.111	1.312	4.422	5.111	2.867
2.89	2.92	538	148	0.69	0.029225	17.60	3.115	1.309	4,424	5.115	2.867
2.92	2.94	540	149	0.69	0.029447	17.61	3.126	1.306	4.432	5.126	2.869
2.94	2.97	542	149	0.70	0.029659	17.61	3.137	1.303	4.440	5.137	2.872
2.97	3.00	543	149	0.70	0.029952	17.62	3.142	1.300	4,442	5.142	2.871
2.99	3.02	545	149	0.70	0.030174	17.62	3.153	1.298	4.450	5.153	2.874
3.02	3.05	547	150	0.71	0.030457	17.63	3.163	1,295	4,458	5.163	2.877
3.03	3.06	548	150	0.71	0.030608	17.63	3.169	1,292	4,461	5,169	2.876
3.06	3.09	549	150	0.71	0.030891	17.63	3.174	1.289	4.463	5.174	2.876
3.08	3.11	552	151	0.71	0.031113	17.64	3.190	1.287	4,477	5.190	2.882
3.10	3.13	553	151	0.71	0.031335	17.64	3.195	1.287	4,482	5,195	2.884
3.13	3.16	555	151	0.72	0.031618	17.65	3.206	1 281	4,487	5,206	2.884
3.16	3.19	557	151	0.72	0.031911	17.65	3.216	1 281	4,497	5,216	2.889
3.18	3.21	559	151	0.72	0.032133	17.66	3.227	1.278	4,505	5.227	2.892
3.20	3,23	561	152	0.72	0.032345	17.66	3,238	1.275	4.513	5,238	2.894
3.23	3.26	563	152	0.73	0.032567	17.66	3.249	1.273	4.522	5.249	2.897
3.25	3.28	564	152	0.73	0.032850	17.67	3.254	1.270	4.524	5.254	2.897
3.28	3.31	566	152	0.73	0.033072	17.67	3 265	1 270	4 584	5 265	2 902
3.30	9.99	567	153	0.74	0.033284	17.68	3 270	1 264	4 5 8 4	5 270	2.899
3 33	3.36	569	153	0.74	0.033577	17.68	3 280	1 264	4 544	5 280	2 904
3.35	3.38	570	158	0.74	0.033799	17.69	3.285	1 261	4 547	5 285	2 904
3.37	3.40	573	153	0.74	0.034011	17.69	3.302	1.261	4.563	5,902	2.912
3.39	3.42	574	153	0.74	0.034233	17.69	3 307	1 259	4 565	5 907	2 912
3.42	9.45	575	154	0.74	0.034526	17.70	3 311	1 256	4 567	5 911	2 912
3.44	3.47	577	154	0.74	0.034738	17.20	8 8 2 2	1.256	4.578	5 922	2.917
3.46	3.50	578	154	0.75	0.034961	17.71	3 3 27	1 253	4.580	5 927	2.917
3.49	3.52	579	154	0.75	0.035243	17.71	3 3 3 2	1 253	4 585	5 332	2919
3.51	9.55	581	154	0.75	0.035465	17.72	2 242	1.250	4 593	5 949	2 9 2 2
3.54	9.58	582	154	0.75	0.035758	17.72	3.347	1 247	4 595	5.947	2.921
5.54	0.00	202	104	0.75	0.005070	47.75	3.344	1.047	4 6 9 9	E DEA	2,020
3.59	3,69	202	155	0.75	0.036363	17.73	2,264	1.245	4.613	5,969	2.929
3.53	3.66	500	155	0.76	0.036556	17.74	3.303	1.245	4.624	5 979	2.925
0.64	0.00	500	100	0.76	0.000709	47.74	2.200	1 343	4 693	5.060	3.007
3.04	3,00	590	100	0.76	0.000061	17.79	2.200	1.242	4,002	5.350	2.337
0.00	0.70	000	400	0.70	0.007001	47.75	3,400	4 330	4.635	5.605	2.000
3,00	3.73	593	400	0.70	0.007263	17.72	3,403	1.239	4.040	5,416	2.342
3.72	3.70	293	100	0.76	0.037959	17.70	3,410	1.239	4.000	5,410	2.347
0.77	0.04	0.00	400	0.72	0.0000001	47.72	0.404	4 394	4.000	C. 404	2.040
3.77	3.01	220	100	0.77	0.0000004	47.77	3,431	1.224	4,000	5,491	2.343
3,00	3,04	293	139	0.77	0.0000077	47.77	3,439	1.034	4.070	5,439	2.332
3.83	3.87	601	155	0.77	0.038657	17.78	3.446	1.234	4.680	5,446	2.357
3.83	3.89	601	100	0.77	0.038879	17.78	3,440	1.231	4.070	5,440	2,354
3,87	3.31	003	130	0.77	0.000001	47.70	3,456	4,004	100.0	0.450	2.353
3.30	3.34	004	138	0.77	0.037384	47.73	3,451	1.231	4.002	2,401	2.351
3.73	3.37	000	100	0.77	0.033076	17.00	3,471	1.220	4,000	5,471	2,304
3.36	4.00	000	100	0.11	0.0000000	47.00	3,462	4.000	4.7.10	3.962	2.363
3.99	4.03	609	157	0.77	0.040252	17.81	3.486	1.225	4./12	5.486	2.968
4.01	4.05	610	157	0.77	0.040474	17.81	3.491	1.225	4./1/	3,491	2.371
4.04	4.08	611	157	0.77	0.040757	17.82	3.456	1.225	4./21	5,456	2.573
4.05	9.10	012	134	0.77	0.040979	11.02	3.501	1.445	4.725	3.301	2.376

	Deform.	Celda	Presión	Incremento		Åres	Lifeetto	a'3	11	:1	Eduerap
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregide	Derviedor	Efectivo	Efectivo	Total	Promedio
(mm)	-	N	(kPa)	(kgt/cm <sup>2</sup> )	Uniteria	(cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgl/cm²)	(kgl/cm <sup>2</sup> )	(bg//cm²)	(kgt/cm <sup>2</sup> )
4.09	4.13	613	157	0.78	0.041272	17.82	3.506	1.222	4.728	5.506	2.975
4.11	4.15	614	157	0.78	0.041484	17.83	3.511	1.222	4.733	5.511	2.978
4.14	4.18	615	157	0.78	0.041777	17.83	3.515	1.220	4.735	5.515	2.977
4.17	4.21	616	157	0.78	0.042070	17.84	3.520	1.220	4,739	5.520	2.980
4.19	4.24	617	157	0.78	0.042353	17.84	3.525	1.220	4,744	5.525	2.982
4.22	4.26	617	157	0.78	0.042575	17.85	3.524	1.220	4,743	5.524	2.981
4.25	4.29	618	157	0.78	0.042868	17.85	3.528	1.217	4,745	5.528	2.981
4.27	4.32	618	157	0.78	0.043150	17.86	3.527	1.217	4,744	5.527	2.980
4.30	4.34	618	157	0.78	0.043372	17.86	3.526	1.217	4,743	5.526	2.980
4.32	4.37	621	157	0.78	0.043665	17.87	3.543	1.217	4,759	5.543	2.988
4.35	4.39	621	157	0.78	0.043948	17.87	3.541	1.217	4,758	5.541	2.988
4.38	4.42	622	158	0.79	0.044241	17.88	3.546	1.214	4,760	5.546	2.987
4.41	4.45	623	158	0.79	0.044534	17.89	3.551	1.214	4,765	5.551	2,989
4.43	4.47	623	158	0.79	0.044746	17.89	3.550	1.214	4,764	5.550	2.989
4.46	4,50	625	158	0.79	0.045039	17.90	3,560	1.214	4,774	5,560	2,994
4.48	4.53	636	158	0.79	0.045261	17.90	3.622	1.214	4,836	5.622	3.025
4.50	4.55	626	158	0.79	0.045473	17.90	3.564	1.211	4,776	5.564	2.993
4.54	4,58	627	158	0.79	0.045836	17.91	3,569	1,211	4,780	5.569	2,996
4,56	4.61	628	158	0.79	0.046059	17.91	3.573	1.211	4,785	5.573	2,998
4,58	4.63	630	158	0.79	0.046271	17.92	3.584	1.211	4,795	5.584	3.003
4.62	4.66	630	158	0.79	0.046634	17.93	3,583	1,211	4,794	5.583	3.003
4.64	4.69	631	158	0.79	0.046856	17.93	3.588	1.208	4,796	5.588	3.002
4.66	4.71	631	158	0.79	0.047068	17.93	3.587	1.208	4,795	5.587	3.002
4.69	4.74	632	158	0.79	0.047361	17.94	3,591	1.208	4,800	5.591	3.004
4,72	4.77	633	158	0.79	0.047654	17.94	3,596	1.208	4,804	5,596	3.006
4.74	4.79	633	158	0.79	0.047866	17.95	3 595	1.208	4.804	5.595	3.006
4,77	4.82	634	158	0.79	0.048159	17.95	3.600	1.208	4,808	5,600	3.008
4.79	4.84	635	158	0.79	0.048381	17.96	3,605	1 208	4.813	5.605	3.011
4.82	4.87	636	158	0.79	0.048664	17.96	3,609	1.208	4.818	5,609	3.013
4,84	4.89	636	158	0.79	0.048886	17.97	3.608	1.208	4,817	5,608	3.013
4.87	4.92	637	158	0.79	0.049179	17.97	3,613	1 208	4.821	5.613	3.015
4,89	4.94	638	158	0.79	0.049391	17.98	3,618	1.208	4.826	5.618	3.017
4.92	4.97	638	158	0.79	0.049684	17.98	3.617	1 208	4.825	5.617	3.017
4.94	4.99	639	158	0.79	0.049896	17.99	3.621	1,208	4,830	5.621	3.019
4,96	5.01	639	158	0.79	0.050118	17.99	3.621	1.208	4,829	5.621	3.019
4.99	5.04	640	158	0.79	0.050411	18.00	3.625	1 208	4 834	5.625	3.021
5.01	5.06	641	158	0.79	0.050623	18.00	3,630	1.208	4,838	5.630	3.023
5.04	5.08	641	158	0.79	0.050845	18.00	3,629	1 208	4.838	5.629	3.023
5.06	5.11	642	158	0.79	0.051057	18.01	3,634	1,208	4.842	5.634	3.025
5.09	5.14	642	158	0.79	0.051350	18.01	3.633	1.208	4.841	5.633	3.025
5.11	5.16	642	158	0.79	0.051572	18.02	3,632	1 208	4 841	5.632	3.025
5.14	5.19	644	158	0.79	0.051855	18.02	3.642	1 208	4.851	5.642	3.030
5.16	5.21	644	158	0.79	0.052077	18.03	3.641	1 208	4.850	5.641	3.029
5.18	5.23	645	158	0.79	0.052289	18.03	3.646	1 208	4.855	5.646	3.032
5.21	5,26	646	158	0.79	0.052582	18.04	3,651	1,208	4,859	5,651	3,034
5.28	5.28	647	158	0.79	0.052804	18.04	3.656	1 211	4 867	5.656	3.039
5,26	5.31	647	158	0.79	0.053087	18.05	3.654	1,208	4,863	5.654	3,036
5.28	5.33	648	158	0.79	0.053309	18.05	3.659	1.211	4.871	5.659	3.041
5.30	5.85	649	158	0.79	0.053531	18:06	3,664	1208	4,873	5,664	3.041
5,33	5,38	649	158	0.79	0.053814	18.06	3,663	1,211	4,874	5,663	3.043
5.35	5,40	649	158	0.79	0.054036	18.07	3,662	1,211	4,873	5,662	3.042
5.37	5.42	650	158	0.79	0.054248	18.07	3.667	1.211	4.878	5.667	3.045

	Deform.	Celda	Presiden	Incremento		Åres	Enforme	13	11	=1	Erfuerzo
Deformación	Unitaria	Carga	de poros	deportos	Deform.	Correction	Dervindor	Efectivo	Efectivo	Total	Promedio
(mm)	*	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kg(/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
5.40	5.45	651	158	0.79	0.054541	18.07	3.671	1 211	4.883	5.671	3.047
5.42	5.48	651	158	0.79	0.054763	18.08	3.671	1 211	4.882	5.671	3.047
5.44	5.50	652	158	0.79	0.054975	18.08	3.675	1 2 1 1	4.887	5.675	3.049
5.47	5.53	653	158	0.79	0.055268	18.09	3.674	1 211	4.885	5.674	3.048
5.40	E EE	653	100	0.70	0.055490	19.00	2.679	1.311	4 900	5 679	2.061
5,49	5.30	653	100	0.79	0.055703	19.10	3.079	1 3 1 1	4,000	5.679	2,051
5.55	5.60	655	158	0.79	0.055995	18.10	3,688	1 211	4,900	5.688	3.055
6.63	0.00	000	400	0.75	0.0553073	10.11	3 2 6 7	4.544	4.000	5,007	5 665
5.57	3.92	600	100	0.79	0.056500	10.11	3.00/	1.211	4,000	5.00/	3,055
5,60	5.65	000	130	0.75	0.000000	10.11	3.000	1.2.14	4.300	5.000	3,057
0.02	5,00	000	100	0.75	0.053005	10.12	3.091	1.214	4.305	5.091	3,059
5,65	5.70	037	159	0.75	0.057369	10.12	2,000	1 314	4.310	5.000	3,002
5.30	0.00	0.00	1.00	0.70	0.007230	10.13	3,300	1.1.1.7	1.040	5.000	3,004
5.70	5.75	000	100	0.75	0.057900	10.13	3.033	1.219	4.313	5.000	3.009
3.72	3.70	000	130	0.75	0.057803	10.14	3.704	1.212	4.313	5.704	3.003
5.75	5,80	660	158	0.79	0.058025	18.14	3.708	1.214	4.923	5.708	3.068
5.77	5.82	660	157	0.78	0.058237	18.15	3.708	1.217	4.924	5.708	3.071
5.80	5.85	661	157	0.78	0.058530	18.15	3.712	1.217	4.929	5.712	3.073
5.83	5.88	662	157	0.78	0.058823	18.16	3.717	1.217	4.933	5.717	3.075
5.85	5.50	663	157	0.78	0.055035	18.15	3.721	1.217	4.938	5.721	3.078
5.87	5.53	664	157	0.78	0.059257	18.1/	3.725	1.220	4.945	5.728	3.083
5.90	5.96	666	157	0.78	0.059550	18.17	3.736	1.217	4.953	5.736	3.085
5.93	5.98	666	157	0.78	0.059833	18.18	3.735	1.220	4.955	5.735	3.087
5.95	6.01	667	157	0.78	0.060055	18.18	3.740	1.220	4.959	5.740	3.089
5.98	6.03	669	157	0.78	0.060348	18.19	3.750	1.220	4.969	5.750	3.095
6.00	6.06	669	157	0.78	0.060631	18.19	3.749	1.222	4.971	5.749	3.097
6.03	6.09	670	157	0.78	0.060923	18.20	3.753	1.222	4.975	5.753	3.099
6.06	6.11	671	157	0.78	0.061146	18.20	3.758	1.222	4.980	5.758	3.101
6.08	6.14	671	157	0.78	0.061358	18.21	3.757	1.222	4.979	5.757	3.101
6.10	6.16	672	157	0.78	0.061580	18.21	3.762	1.222	4.984	5.762	3.103
6.13	6.19	673	157	0.77	0.061873	18.22	3.766	1.225	4.991	5.766	3.108
6.15	6.21	674	157	0.77	0.062085	18.22	3.771	1.225	4.996	5.771	3.111
6.18	6.24	674	157	0.77	0.062378	18.23	3.770	1.225	4.995	5.770	3.110
6.21	6.27	675	157	0.78	0.062670	18.23	3.774	1.225	4.999	5.774	3.112
6.23	6.29	677	157	0.77	0.062882	18.24	3.784	1.225	5.009	5.784	3.117
6.26	6.32	678	157	0.77	0.063175	18.24	3.789	1.226	5.014	5.789	3.120
6.29	6.35	681	157	0.77	0.063468	18.25	3.804	1.226	5.030	5.804	3.128
6.31	6.38	682	157	0.77	0.063751	18.25	3.809	1.226	5.035	5.809	3.131
6.34	6.40	685	156	0.77	0.064044	18.26	3.824	1.227	5.051	5.824	3.139
6.36	6.43	685	156	0.77	0.064266	18.26	3.823	1.227	5.051	5.823	3.139
6.39	6.45	684	156	0.77	0.064549	18.27	3.817	1.228	5.045	5.817	3.136
6.41	6.48	686	156	0.77	0.064771	18.27	3.827	1.228	5.055	5.827	3.142
6.44	6.50	687	156	0.77	0.064983	18.28	3.832	1.229	5.060	5.832	3.145
6.46	6.52	688	156	0.77	0.065205	18.28	3.836	1,229	5.066	5.836	3.147
6.49	6.55	689	156	0.77	0.065498	18.29	3.841	1,230	5.070	5.841	3.150
6.51	6.58	689	156	0.77	0.065781	18.29	3.840	1.230	5.070	5.840	3.150
6.54	6.60	690	156	0.77	0.066003	18.30	3.844	1.231	5.075	5.844	3.153
6.57	6,63	691	156	0.77	0.066296	18.30	3,849	1,231	5,080	5,849	3,155
6.59	6.65	691	156	0.77	0.066508	18.31	3.848	1,232	5.079	5.848	3.155
6.62	6,68	693	156	0.77	0.066801	18.31	3,858	1,232	5.090	5,858	3,161
6.64	6,70	693	156	0.77	0.067023	18.32	3.857	1,233	5.089	5,857	3,161
6.67	6.73	695	156	0.77	0.067306	18 32	3,867	1,283	5,100	5,867	3 166
6.69	6.75	695	156	0.77	0.067528	18.33	3.866	1.233	5.099	5.866	3.166

	Deform.	Celda	Presión	Incremento		Area	Estuerzo	:3	11	==1	Enfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Derviedor	Electivo	Electivo	Total	Promedio
(mm)	56	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
6,72	6.78	696	156	0.77	0.067821	18.33	3.870	1.234	5.104	5.870	3.169
6.74	6.80	697	156	0.77	0.068033	18.34	3.875	1.234	5.109	5.875	3.172
6.77	6.83	697	156	0.77	0.068325	18.34	3.874	1,235	5.108	5.874	3.172
6.79	6.85	698	156	0.76	0.068538	18.35	3.878	1.235	5.114	5.878	3.174
6.82	6.88	699	156	0.76	0.068830	18.35	3.883	1.236	5.118	5.883	3.177
6.84	6.91	700	156	0.76	0.069053	18.36	3.887	1.236	5.123	5.887	3.180
6.87	6.93	700	155	0.76	0.069335	18.36	3.886	1.237	5.123	5.886	3.180
6.89	6.96	701	155	0.76	0.069557	18.37	3.891	1.237	5.128	5.891	3.182
6.91	6.98	702	155	0.76	0.069770	18.37	3.895	1.238	5.133	5.895	3.185
6.94	7.01	701	155	0.76	0.070062	18.38	3.889	1.238	5.127	5.889	3.182
6.96	7.03	702	155	0.76	0.070285	18.38	3.893	1.239	5.132	5.893	3.185
6.99	7.06	703	155	0.76	0.070567	18.39	3.897	1.239	5.137	5.897	3.188
7.01	7.08	703	155	0.76	0.070789	18.39	3.897	1.240	5.136	5.897	3.188
7.04	7.11	704	155	0.76	0.071082	18.40	3.901	1.240	5.141	5.901	3.190
7.07	7.14	704	155	0.76	0.071365	18.40	3.900	1.240	5.140	5.900	3.190
7.09	7.16	705	155	0.76	0.071587	18.41	3.904	1.241	5.145	5.904	3.193
7.11	7.18	705	155	0.76	0.071809	18.41	3.903	1.241	5.145	5.903	3.193
7.13	7.20	706	155	0.76	0.072021	18.42	3.908	1.242	5.150	5.908	3.196
7.16	7.23	706	155	0.76	0.072314	18.42	3.907	1.242	5.149	5.907	3.196
7.19	7.26	706	155	0.76	0.072607	18.43	3.906	1.243	5.148	5.906	3.196
7.21	7.28	707	155	0.76	0.072819	18.43	3.910	1.243	5.153	5.910	3.198
7.23	7.30	707	155	0.76	0.073041	18.44	3.909	1.244	5.153	5.909	3.198
7.25	7.33	707	155	0.76	0.073253	18.44	3.908	1.244	5.153	5.908	3.198
7.28	7.35	708	155	0.76	0.073546	18.45	3.913	1.245	5.157	5.913	3.201
7.31	7.38	708	155	0.75	0.073769	18.45	3.912	1.245	5.157	5.912	3.201
7.33	7.40	708	155	0.75	0.073981	18.45	3.911	1.246	5.156	5.911	3.201
7.36	7.43	708	155	0.75	0.074273	18.46	3.910	1.246	5.156	5.910	3.201
7.38	7.45	709	155	0.75	0.074485	18.46	3.914	1.247	5.161	5.914	3.204
7.41	7.48	710	154	0.75	0.074778	18.47	3.918	1.247	5.165	5.918	3.206
7.43	7.50	710	154	0.75	0.075001	18.47	3.918	1.247	5.165	5.918	3.206
7.45	7.52	710	154	0.75	0.075213	18.48	3.917	1.248	5.165	5.917	3.206
7.48	7.55	710	154	0.75	0.075505	18.48	3.915	1.248	5.164	5.915	3.206
7.51	7.58	711	154	0.75	0.075798	18.49	3.920	1.249	5.168	5.920	3.209
7.53	7.60	711	154	0.75	0.076010	18.49	3.919	1.249	5.168	5.919	3.209
7.55	7.62	711	154	0.75	0.076233	18.50	3.918	1.250	5.168	5.918	3.209
7.57	7.64	713	154	0.75	0.076445	18.50	3.928	1.250	5.178	5.928	3.214
7.60	7.67	712	154	0.75	0.076737	18.51	3.921	1.251	5.172	5.921	3.211
7.62	7.70	713	154	0.75	0.076960	18.51	3.926	1.251	5.177	5.926	3.214
7.65	7.72	714	154	0.75	0.077242	18.52	3.930	1.252	5.182	5.930	3.217
7.67	7.75	714	154	0.75	0.077465	18.52	3.929	1.252	5.181	5.929	3.217
7.69	7.77	715	154	0.75	0.077677	18.53	3.934	1.253	5.186	5.934	3.219
7.72	7.80	715	154	0.75	0.077969	18.53	3.932	1.253	5.185	5.932	3.219
7.74	7.82	716	154	0.75	0.078192	18.54	3.937	1.254	5.190	5.937	3.222
7.77	7.85	716	154	0.75	0.078474	18.54	3.936	1.254	5.190	5.936	3.222
7.79	7.87	717	154	0.75	0.078697	18.55	3.940	1.254	5.195	5.940	3.225
7.82	7.90	717	154	0.75	0.078989	18.55	3.939	1.255	5.194	5.939	3.224
7.84	7.92	717	154	0.74	0.079201	18.56	3.938	1.255	5.194	5.938	3.224
7.87	7.95	718	154	0.74	0.079494	18.56	3.942	1.255	5.198	5.942	3.227
7.89	7.97	718	154	0.74	0.079716	18.57	3.941	1.256	5.198	5.941	3.227
7.92	7.99	719	153	0.74	0.079929	18.57	3.346	1.257	5.203	5.948	3.230
7.54	8.02	719	153	0.74	0.080151	18.58	3.945	1.257	5.202	5.945	3.230
7.97	8.04	719	155	0.34	0.080453	18.58	3,344	1.258	5.202	5.344	3.2.30

	Deform.	Celda	Presión	Incremento		Åres	Lifverto	a'3	11	=1	Erfuerzo
Deformación	Unitaria	Carga	de poros	deporos	Deform.	Corregida	Derviedor	Efectivo	Efectivo	Total	Promedio
(mm)		N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm²)	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
7.99	8.07	720	153	0.74	0.080656	18.59	3.948	1.258	5.207	5.948	3.232
8.02	8.09	721	153	0.74	0.080948	18.59	3.953	1.259	5.211	5.953	3.235
8.04	8.12	721	153	0.74	0.081161	18.60	3.952	1.259	5,211	5.952	3,235
8.06	8.14	721	153	0.74	0.081383	18.60	3.951	1.260	5.210	5.951	3.235
8.09	8.17	721	153	0.74	0.081665	18.61	3.950	1.260	5,210	5.950	3,235
8.11	8.19	722	153	0.74	0.081888	18.61	3.954	1.260	5.215	5.954	3.238
8.14	8.22	722	153	0.74	0.082180	18.62	3.953	1.261	5.214	5.953	3.237
8.16	8.24	723	153	0.74	0.082393	18.62	3.957	1.261	5.219	5.957	3.240
8.18	8.26	723	153	0.74	0.082615	18.63	3.956	1.262	5.218	5.956	3.240
8.21	8.29	723	153	0.74	0.082908	18.63	3.955	1.262	5.218	5,955	3.240
8.23	8.31	723	153	0.74	0.083120	18.64	3.954	1.263	5.217	5.954	3.240
8.25	8.33	724	153	0.74	0.083342	18.64	3.959	1.263	5.222	5.959	3.243
8.27	8.36	724	153	0.74	0.083554	18.65	3.958	1.264	5.222	5.958	3.243
8.30	8.38	725	153	0.74	0.083776	18.65	3.962	1.264	5.227	5.962	3.245
8.33	8.41	726	153	0.74	0.084069	18.66	3.967	1.265	5.231	5.967	3.248
8.35	8.43	726	153	0.73	0.084281	18.66	3.966	1.265	5.231	5.966	3.248
8.38	8.46	726	153	0.73	0.084574	18.67	3.964	1.266	5.230	5.964	3.248
8.40	8.48	727	153	0.73	0.084786	18.67	3.969	1.266	5.235	5.969	3.251
8.43	8.51	726	152	0.73	0.085079	18.68	3.962	1.267	5.229	5.962	3.248
8.44	8.52	727	152	0.73	0.085220	18.68	3.967	1.267	5.234	5.967	3.251
8.47	8.55	728	152	0.73	0.085513	18.69	3.971	1.267	5.239	5.971	3.253
8.49	8.57	728	152	0.73	0.085735	18.69	3.970	1.268	5.238	5.970	3.253
8.51	8.59	729	152	0.73	0.085947	18.70	3.975	1.268	5.243	5.975	3.256
8.54	8.62	729	152	0.73	0.086240	18.70	3.973	1.269	5.242	5.973	3.256
8.56	8.65	730	152	0.73	0.086462	18.71	3.978	1.269	5.247	5.978	3.258
8.59	8.67	731	152	0.73	0.086745	18.71	3.982	1.270	5.252	5.982	3.261
8.61	8.70	731	152	0.73	0.086967	18.72	3.981	1.270	5.251	5.981	3.261
8.63	8.72	732	152	0.73	0.087179	18.72	3.986	1.271	5.256	5,986	3.264
8.66	8.74	733	152	0.73	0.087401	18.73	3.990	1.271	5.261	5.990	3.266
8.68	8.77	734	152	0.73	0.087694	18.73	3.994	1.272	5.266	5.994	3.269
8.71	8.79	734	152	0.73	0.087906	18.74	3.993	1.272	5.266	5.993	3.269
8.73	8.82	735	152	0.73	0.088199	18.74	3.998	1.273	5.270	5.998	3.271
8.76	8.84	736	152	0.73	0.088411	18.75	4.002	1.273	5.275	6.002	3.274
8.78	8.87	736	152	0.73	0.088704	18.75	4.001	1.274	5.274	6.001	3.274
8.81	8.89	736	152	0.73	0.088926	18.76	4.000	1.274	5.274	6.000	3.274
8.83	8.92	736	152	0.73	0.089209	18.75	3.999	1.274	5.273	5.999	3.274
8.86	8.94	736	152	0.73	0.089431	18.77	3.998	1.275	5.273	5.998	3.274
8.88	8.97	737	152	0.72	0.089653	18.77	4.002	1.275	5.277	6.002	3.276
8.91	8.99	737	152	0.72	0.089936	18.78	4.001	1.276	5.277	6.001	3.276
8.94	9.02	738	152	0.72	0.090229	18.78	4.005	1.276	5.281	6.005	3.279
8.96	9.05	738	151	0.72	0.090522	18.79	4.004	1.277	5.281	6.004	3.279
8.99	9.08	739	151	0.72	0.090815	18.80	4.008	1.277	5.285	6.008	3.281
9.02	9.11	740	151	0.72	0.091097	18.80	4.012	1.278	5.290	6.012	3.284
9.04	9.13	740	151	0.72	0.091319	18.81	4.011	1.278	5.289	6.011	3.284
9.07	9.16	742	151	0.72	0.091612	18.81	4.021	1.279	5.299	6.021	3.289
9.10	9.19	742	151	0.72	0.091895	18.82	4.019	1.279	5.298	6.019	3.289
9.13	9.22	743	151	0.72	0.092188	18.82	4.023	1.280	5,303	6.023	3.291
9.16	9.25	744	151	0.72	0.092481	18.83	4.028	1.280	5.308	6.028	3,294
9.19	9.28	744	151	0.72	0.092764	18.84	4.026	1.281	5.307	6.026	3.294
9.21	9.30	745	151	0.72	0.092986	18.84	4.031	1.281	5.312	6.031	3.296
9.24	9.33	745	151	0.72	0.093279	18.85	4.029	1.281	5.311	6.029	3,296
9.27	9.36	746	151	0.72	0.093561	18.85	4.034	1.282	5.316	6.034	3,299

	Deform.	Celda	Presión	Incremento		Åres	Estuerro	63	11	=1	Enfuerco
Deformación	Unitaria	Cargo	de poros	deportos	Deform.	Correcide	Derviedor	Efectivo	Electivo	Total	Promedio
(mm)	5	N	(kPa)	(ket/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kat/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(hgt/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(ket/cm <sup>2</sup> )
9.79	9.39	747	151	0.72	0.093854	18.85	4.038	1 282	5 320	6.038	3 301
9.32	9.41	747	151	0.72	0.094076	18.86	4.037	1.283	5.320	6.037	3.301
9.34	9,44	747	151	0.72	0.094359	18.87	4.035	1.283	5.319	6.035	3,301
9.37	9.47	748	151	0.72	0.094652	18.88	4.040	1.284	5.323	6.040	3,304
9.40	9,49	749	151	0.72	0.094945	18.88	4.044	1.284	5.328	6.044	3.306
9.42	9.52	749	151	0.72	0.095157	18.89	4.043	1.285	5.327	6.043	3,306
9.46	9.55	751	151	0.71	0.095520	18.89	4.052	1.285	5.337	6.052	3.311
9.48	9.57	752	151	0.71	0.095743	18.90	4.056	1.285	5.342	6.056	3.314
9.51	9.60	752	151	0.71	0.096035	18.90	4.055	1.285	5.341	6.055	3.314
9.54	9.63	753	150	0.71	0.096318	18.91	4.059	1.287	5.346	6.059	3.316
9.57	9.66	753	150	0.71	0.096611	18.92	4.058	1.287	5.345	6.058	3.316
9.59	9.68	754	150	0.71	0.096833	18.92	4.062	1.288	5.350	6.062	3.319
9.62	9.71	756	150	0.71	0.097116	18.93	4.072	1.288	5.360	6.072	3.324
9.65	9.75	757	150	0.71	0.097479	18.93	4.075	1.288	5.364	6.075	3.326
9.68	9.78	758	150	0.71	0.097772	18.94	4.079	1.289	5.368	6.079	3.329
9.70	9.80	758	150	0.71	0.097994	18.95	4.078	1.289	5.368	6.078	3.329
9.73	9.83	759	150	0.71	0.098277	18.95	4.083	1.290	5.372	6.083	3.331
9.75	9.85	758	150	0.71	0.098499	18.96	4.076	1.290	5.366	6.076	3.328
9.78	9.88	758	150	0.71	0.098792	18.96	4.075	1.291	5.366	6.075	3.328
9.80	9.90	759	150	0.71	0.099004	18.97	4.079	1.291	5.370	6.079	3.331
9.83	9.93	759	150	0.71	0.099297	18.97	4.078	1.292	5.370	6.078	3.331
9.86	9.96	760	150	0.71	0.099590	18.98	4.082	1.292	5.374	6.082	3.333
9.89	9.99	760	150	0.71	0.099873	18.99	4.081	1.293	5.373	6.081	3.333
9.91	10.01	760	150	0.71	0.100095	18.99	4.080	1.293	5.373	6.080	3.333
9.94	10.04	760	150	0.71	0.100388	19.00	4.078	1.294	5.372	6.078	3.333
9.96	10.06	760	150	0.71	0.100600	19.00	4.077	1.294	5.371	6.077	3.333
9.98	10.08	760	150	0.71	0.100822	19.01	4.076	1.295	5.371	6.076	3.333
10.01	10.11	760	150	0.71	0.101105	19.01	4.075	1.295	5.370	6.075	3.333
10.03	10.13	759	150	0.70	0.101327	19.02	4.069	1.295	5.364	6.069	3.330
10.06	10.15	760	150	0.70	0.101549	19.02	4.073	1.296	5.369	6.073	3.332
10.08	10.18	760	150	0.70	0.101761	19.03	4.072	1.296	5.368	6.072	3.332
10.10	10.20	760	149	0.70	0.101983	19.08	4.071	1.297	5.368	6.071	3.332
10.13	10.23	759	149	0.70	0.102266	19.04	4.064	1.297	5.362	6.064	3.330
10.15	10.25	760	149	0.70	0.102488	19.04	4.069	1.298	5.367	6.069	3.332
10.18	10.28	760	149	0.70	0.102781	19.05	4.067	1.298	5.366	6.067	3.332
10.20	10.30	759	149	0.70	0.102993	19.05	4.061	1.299	5.360	6.061	3.329
10.23	10.33	760	149	0.70	0.103286	19.06	4.065	1.299	5.364	6.065	3.332
10.25	10.35	760	149	0.70	0.103508	19.06	4.064	1.300	5.364	6.064	3.332
10.27	10.37	760	149	0.70	0.103720	19.07	4.063	1.300	5.363	6.063	3.332
10.29	10.39	760	149	0.70	0.103942	19.07	4.062	1.301	5.363	6.062	3.332
10.32	10.42	759	149	0.70	0.104225	19.08	4.056	1.301	5.357	6.056	3.329
10.35	10.45	760	149	0.70	0.104518	19.08	4.060	1.302	5.361	6.050	3.331
10.37	10.47	759	149	0.70	0.104740	19.09	4.053	1.302	5.355	6.053	3.329
10.39	10.50	759	149	0.70	0.104952	19.09	4.052	1.302	5.355	6.052	3.329
10.42	10.52	759	149	0.70	0.105245	19.10	4.051	1.303	5.354	6.051	3.328
10.44	10.54	759	149	0.70	0.105386	19.10	4.050	1.303	5.354	6.050	3.329
10.47	10.57	760	149	0.70	0.105679	19.11	4.054	1.304	5.358	6.054	3.331
10.49	10.60	760	149	0.70	0.105972	19.11	4.053	1.304	5.357	6.053	3.331
10.52	10.62	760	149	0.70	0.106184	19.12	4.052	1.305	5.357	6.052	3.331
10.54	10.64	760	149	0.69	0.106406	19.12	4.051	1.305	5.356	6.051	3.331
10.57	10.67	760	149	0.69	0.106699	19.13	4.050	1.305	5.355	6.050	3.331
10.54	10.64	761	149	0.69	0.106406	19.12	4.056	1.306	5.363	6.056	3.334

	Deform.	Celda	Presión	Incremento		Åree	Infuerro	13	11	11	Enfuerco
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Dervindor	Electivo	Electivo	Total	Promedio
(mm)	56	N	(kPa)	(kgi/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(hgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
10.62	10.72	760	148	0.69	0.107204	19.14	4.047	1.307	5.354	6.047	3,330
10.64	10.74	761	148	0.69	0.107416	19.15	4.052	1.307	5.359	6.052	3.333
10.67	10.77	761	148	0.69	0.107709	19.15	4.050	1.308	5,358	6.050	3,333
10.69	10.79	761	148	0.69	0.107931	19.16	4.049	1.308	5.357	6.049	3.333
10.71	10.81	762	148	0.69	0.108143	19.16	4.054	1.309	5.362	6.054	3.335
10.74	10.84	762	148	0.69	0.108436	19.17	4.052	1.309	5.361	6.052	3.335
10.77	10.87	763	148	0.69	0.108729	19.17	4.056	1.309	5.366	6.056	3.338
10.79	10.89	762	148	0.69	0.108941	19.18	4.050	1.310	5.360	6.050	3.335
10.82	10.92	763	148	0.69	0.109234	19.18	4.054	1.310	5.365	6.054	3.337
10.85	10.95	763	148	0.69	0.109527	19.19	4.053	1.311	5.364	6.053	3.337
10.87	10.97	763	148	0.69	0.109739	19.20	4.052	1.311	5.363	6.052	3.337
10.84	10.95	763	148	0.69	0.109456	19.19	4.053	1.312	5.365	6.053	3.338
10.91	11.02	763	148	0.69	0.110173	19.20	4.050	1.312	5.362	6.050	3.337
10.94	11.05	763	148	0.69	0.110466	19.21	4.049	1.313	5.361	6.049	3.337
10.97	11.08	763	148	0.69	0.110759	19.22	4.047	1.313	5.360	6.047	3.337
10.99	11.10	763	148	0.69	0.110971	19.22	4.046	1.314	5.360	6.046	3.337
11.01	11.12	763	148	0.69	0.111193	19.23	4.045	1.314	5.359	6.045	3.337
11.04	11.15	763	148	0.69	0.111486	19.23	4.044	1.315	5.358	6.044	3.337
11.06	11.17	764	148	0.68	0.111698	19.24	4.048	1.315	5.363	6.048	3.339
11.09	11.20	764	148	0.68	0.111991	19.24	4.047	1.316	5.362	6.047	3.339
11.11	11.22	764	148	0.68	0.112203	19.25	4.046	1.316	5,362	6.046	3.339
11.15	11.26	766	148	0.68	0.112566	19.26	4.055	1.316	5.371	6.055	3.344
11.17	11.28	765	147	0.68	0.112789	19.26	4.049	1 917	5 365	6.049	8 841
11.14	11.25	766	147	0.68	0.112496	19.26	4.055	1 317	5 973	6.055	8 845
11.22	11.33	766	147	0.68	0.113293	19.27	4.052	1.318	5.369	6.052	3 344
11.24	11.35	766	147	0.68	0.113516	19.28	4.051	1 318	5 969	6.051	8 844
11.27	11.38	766	147	0.68	0.113798	19.28	4.049	1.319	5,368	6.049	3.343
11.29	11.40	766	147	0.68	0.114021	19.29	4 048	1 319	5 967	6.048	8 848
11.32	11.43	767	147	0.68	0.114313	19.29	4.052	1.320	5.372	6.052	3.346
11.34	11.45	767	147	0.68	0.114525	19.90	4.051	1.320	5.371	6.051	3.346
11.36	11.47	768	147	0.68	0.114748	19.90	4.055	1 921	5 976	6.055	3 348
11.39	11.50	769	147	0.68	0.115040	19.91	4.059	1 921	5 381	6.059	3 351
11.41	11 53	700	1.47	0.59	0.115353	10.00	4.050	1 9 9 9	C 970	6.053	0.040
11.44	11.55	769	147	0.68	0.115545	19.92	4.057	1 922	5 979	6.057	3 351
11.45	11 58	769	147	0.68	0.115757	19.93	4.056	1 9 9 9	5 979	6.056	3 351
11.44	11.55	770	147	0.69	0.1155.45	10.00	4.063	1 9 9 9	5 995	6.063	0.004
11.52	11.63	770	140	0.68	0.116343	19.94	4.059	1 3 2 3	5 382	6.059	3 353
11 54	11.00	770	1.67	0.00	0.110043	10.04	4.050	1 2 2 4	C 202	6.059	0.000
11.54	11.00	770	1.47	0.00	0.110000	10.05	4.060	1.004	2.302	6.050	3,303
11.57	11.00	771	1.47	0.00	0.112020	19.35	1002	1,009	5,399	6.062	0.000
44.00	44.74	775	4.47	0.00	0.447070	40.00	4,020	4.000	2.000	0.000	5.555
11.62	44.76	771	1.47	0.67	0.117353	19.30	4.000	1.323	2,302	6.003	3,300
11.04	11.70	772	1.97	0.07	0.11/5/5	19.37	4.004	1.320	5.303	0.004	3,330
11.67	11.79	771	147	0.67	0.117858	19.37	4.057	1.325	5.383	6.057	3,355
11.00	11.01	775	140	0.07	0.118080	10.00	4.000	1,007	2,393	6,000	3,300
11.72	11.09	112	146	0.07	0.116073	10.30	4.000	1.327	0.307	0.000	3.337
11.74	11.85	113	146	0.67	0.118595	19.39	4.064	1.328	5.392	6.064	3.360
11.77	11.88	113	145	0.67	0.11880/	19.39	4.063	1.328	5.391	6.063	3.360
11.79	11.91	114	146	0.67	0.119100	19.40	4.057	1.329	5.395	6.057	3.362
11.82	11.94	774	146	0.67	0.119393	19.41	4.066	1.329	5.395	6.066	3.362
11.84	11.96	114	146	0.67	0.119605	19.41	4.065	1.330	5.394	6.065	3.362
11.87	11.98	774	146	0.67	0.119827	19.42	4.064	1.330	5.394	6.064	3.362
11.89	12.01	774	148	0.67	0.120110	19.42	4.062	1.330	5,393	6.052	3.362

	Deform.	Celda	Presión	Incremento		Åres	Estuerro	13	11	=1	Enfuerco
Deformación	Unitaria	Cargo	de poros	deportos	Deform.	Correction	Dewindor	Efectivo	Efectivo	Total	Promedio
(mm)	56	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
11.92	12.03	774	145	0.67	0.120832	19.43	4.061	1 3 3 1	5 992	6.051	3 362
11.94	12.05	775	146	0.67	0.120544	19.43	4.056	1 331	5 997	6.055	3 364
11.97	12.08	774	146	0.67	0.120837	19.44	4.059	1 3 3 2	5 991	6.059	3 361
11.99	12.11	775	146	0.67	0.121059	19.44	4.063	1 3 3 2	5 996	6.053	3 364
12.01	10.10	778	1.44	0.67	0.101071	10.45	4.057	1 0 0 0	5 200	6.057	0.001
12.01	12.15	774	146	0.67	0.121271	19.45	4.056	1 3 3 3	5,989	6.056	3,301
12.07	12.19	775	145	0.67	0.121857	19.46	4.050	1 3 34	5 393	6.050	8 968
12.00	10.04	776	1.44	0.67	0.100060	10.47	4.050	1 0 0 4	5 202	6.050	0.000
12.05	12.21	775	140	0.07	0.122060	10.47	4.050	1 3 3 5	5.393	6.063	3,303
12.14	10.00	770	1.46	0.07	0.1222002	10.40	4.054	4 9 9 5	5.004	6.000	0.000
12.14	12.20	772	149	0.00	0.1222004	10.40	4.000	1,333	2,391	0.000	3,393
12.17	12.23	776	140	0.00	0.122007	10.40	4.050	1.339	5.395	6.060	3,300
43.34	10.00	770	1.46	0.00	0.122020	10.40	4.050	1 0 0 4	C 200	6.053	0.000
12.21	12.33	772	140	0.00	0.123001	10.40	4.053	1.330	5.003	6.003	3,303
12.23	12.35	110	140	0.00	0.123023	13.50	4.057	1.337	2,309	6.007	3,300
12.25	12.38	115	145	0.55	0.123816	19.50	4.050	1.337	5,388	6.050	3,365
12.29	12.41	776	140	0.00	0.124033	13.51	4.059	1.330	5.392	0.004	3,305
12.51	12,43	//0	145	0.00	0.124021	19.52	4.053	1.330	5,392	6.003	3,305
12.34	12.46	776	145	0.66	0.124614	19.52	4.052	1.339	5,391	6.052	3.365
12.36	12.48	111	145	0.65	0.124826	19.53	4.056	1.339	5,395	6.056	3.367
12.39	12.51	116	145	0.66	0.125119	19.53	4.050	1.340	5.385	6.050	3,365
12.41	12.53	717	145	0.66	0.125341	19.54	4.054	1.340	5,394	6.054	3.367
12.43	12.58	m	145	0.66	0.125553	19.54	4.053	1.341	5,394	6.053	3.367
12.46	12.58	777	145	0.66	0.125775	19.55	4.052	1.341	5.393	6.052	3.367
12.48	12.61	717	145	0.66	0.126058	19.55	4.051	1.342	5,392	6.051	3.367
12.51	12.64	m	145	0.66	0.126351	19.58	4.049	1.342	5,391	6.049	3.367
12.53	12.66	778	145	0.66	0.126573	19.57	4.053	1.343	5.396	6.053	3.369
12.56	12.68	m	145	0.66	0.126785	19.57	4.047	1.343	5,390	6.047	3.367
12.58	12.71	778	145	0.66	0.127078	19.58	4.051	1.343	5,395	6.051	3.369
12.61	12.73	778	145	0.66	0.127290	19.58	4.050	1.344	5.394	6.050	3.369
12.63	12.76	778	145	0.66	0.127583	19.59	4.049	1.344	5.393	6.049	3.369
12.66	12.78	778	145	0.66	0.127805	19.59	4.048	1.345	5,393	6.048	3.369
12.69	12.81	778	145	0.65	0.128098	19.60	4.046	1.345	5.392	6.046	3.369
12.71	12.83	779	145	0.65	0.128310	19.60	4.051	1.346	5,396	6.051	3.371
12.74	12.86	779	145	0.65	0.128603	19.61	4.049	1.346	5.395	6.049	3.371
12.76	12.88	779	144	0.65	0.128815	19.62	4.048	1.347	5.395	6.048	3.371
12.79	12.91	780	144	0.65	0.129108	19.62	4.052	1.347	5,399	6.052	3.373
12.81	12.93	780	144	0.65	0.129330	19.63	4.051	1.348	5.399	6.051	3.373
12.84	12.96	781	144	0.65	0.129612	19.63	4.055	1.348	5.403	6.055	3.376
12.86	12.98	781	144	0.65	0.129835	19.64	4.054	1.349	5.402	6.054	3.376
12.89	13.01	781	144	0.65	0.130127	19.65	4.052	1.349	5.402	6.052	3.375
12.91	13.04	781	144	0.65	0.130410	19.65	4.051	1.350	5,401	6.051	3.375
12.94	13.06	782	144	0.65	0.130632	19.66	4.055	1.350	5.405	6.055	3.378
12.96	13.08	782	144	0.65	0.130844	19.66	4.054	1.350	5.405	6.054	3.378
12.99	13.11	782	144	0.65	0.131137	19.67	4.053	1.351	5.404	6.053	3.377
13.02	13.14	783	144	0.65	0.131430	19.68	4.057	1.351	5.408	6.057	3.380
13.04	13.16	783	144	0.65	0.131642	19.68	4.056	1.352	5.408	6.056	3.380
13.07	13.19	783	144	0.65	0.131935	19.69	4.054	1.352	5.407	6.054	3.380
13.09	13.22	784	144	0.65	0.132157	19.69	4.059	1.353	5.411	6.059	3.382
13.11	13.24	784	144	0.65	0.132369	19.70	4.058	1.353	5.411	6.058	3.382
13.14	13.27	784	144	0.65	0.132662	19.70	4.056	1.354	5.410	6.056	3.382
13.16	13.29	784	144	0.65	0.132884	19.71	4.055	1.354	5.409	6.055	3.382
13.19	13.32	784	144	0.65	0.133167	19.71	4.054	1.355	5.408	6.054	3.382

	Delarm	Califa	Presiden	Incremento		Åren	Lafeerzo	a'3	a'1	=1	Enfuerco
Deformación	Uniteria	Carga	de poros	deportos	Deform.	Cornerida	Dervision	Bectivo	Bectivo	Total	Promedio
(mm)	5	N	(kPa)	(kgt/cm <sup>*</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(logt/cm <sup>2</sup> )
13.21	13.34	784	144	0.64	0.133389	19.72	4.053	1.355	5,408	6.053	3,382
13.23	13.36	783	144	0.64	0.133601	19.72	4.047	1.356	5.402	6.047	3.379
13.26	13.39	784	144	0.64	0.133894	19.73	4.050	1 356	5.406	6.050	3 381
18.27	13.40	783	143	0.64	0.134046	19.73	4.045	1 957	5.401	6.045	3 379
13.30	13.43	783	143	0.64	0.134338	19.74	4.043	1 957	5 400	6.043	3 979
13.32	13.46	783	143	0.64	0.134551	19.75	4 042	1 357	5,400	6.042	3 379
18.95	13.48	784	143	0.64	0.134763	19.75	4 046	1 358	5.404	6.046	3 381
13.37	13.51	785	143	0.64	0.135055	19.76	4.050	1 958	5.409	6.050	3 393
13.40	13.53	785	143	0.64	0.135278	19.75	4.049	1 359	5.408	6.049	3 383
12.40	10.54	705	140	0.64	0.100000	10.77	4.049	1 300	5.407	6.049	0.000
12.42	13.39	700	140	0.04	0.135060	10.72	4.053	1.300	5,411	6.053	3,302
13.45	13,61	786	143	0.64	0.136146	19.78	4.050	1 960	5.410	6.050	3 395
13.50	10.64	700	140	0.04	0.100000	10.70	4.050	1.000	5,450	6.050	2 200
10.00	13,09	700	140	0.04	0.130350	10.79	4.059	1.001	5,410	6.003	2,390
13.33	13,07	700	140	0.04	0.130031	10.70	0000	1.301	5.415	0.000	3,390
13.55	13.63	700	143	0.64	0.136873	19.80	4.057	1.362	5.419	6.057	3,390
12.20	13.72	703	140	0.04	0.137130	10.01	4.060	1.302	5,423	6.061	3,393
13.60	13.79	103	143	0.04	0.13/3/0	13.61	4.000	1.303	339.6	0.000	3,393
13.63	13.77	790	143	0.64	0.13/6/1	19.82	4.064	1.363	5.427	6.064	3,395
13.65	13.79	791	143	0.04	0.13/003	13.62	4.000	1.309	5.431	0.000	3.397
13.68	13.81	792	143	0.64	0.138105	19.83	4.072	1.364	5,435	6.072	3,400
13.70	13.84	792	143	0.64	0.138388	19.83	4.071	1.364	5.435	6.0/1	3,400
13.73	13.86	792	143	0.64	0.138610	19.84	4.069	1.365	5.434	6.069	3,400
13.75	13.88	793	143	0.63	0.138832	19.84	4.074	1.365	5.439	6.074	3.402
13.78	13.91	793	143	0.63	0.139115	19.85	4.072	1.366	5.438	6.072	3.402
13.80	13.93	794	143	0.63	0.139337	19.85	4.076	1.365	5.443	6.076	3,404
13.82	13.95	795	142	0.63	0.139549	19.86	4.080	1.367	5.447	6.080	3.407
13.84	13.98	795	142	0.63	0.139771	19.87	4.079	1.367	5.447	6.079	3.407
13.87	14.01	796	142	0.63	0.140064	19.87	4.083	1.368	5,451	6.083	3.409
13.89	14.03	796	142	0.63	0.140276	19.88	4.082	1.368	5.450	6.082	3.409
13.91	14.05	797	142	0.63	0.140498	19.88	4.086	1.369	5.455	6.086	3.412
13.94	14.08	797	142	0.63	0.140791	19.89	4.085	1.369	5.454	6.085	3.412
13.97	14.11	797	142	0.63	0.141074	19.90	4.083	1.370	5.453	6.083	3.411
14.00	14.14	798	142	0.63	0.141367	19.90	4.087	1.370	5.457	6.087	3.414
14.02	14.16	797	142	0.63	0.141589	19.91	4.081	1.371	5.452	6.081	3.411
14.05	14.19	798	142	0.63	0.141872	19.91	4.085	1.371	5.456	6.085	3.413
14.08	14.22	798	142	0.63	0.142165	19.92	4.083	1.371	5.455	6.083	3.413
14.10	14.24	798	142	0.63	0.142387	19.93	4.082	1.372	5.454	6.082	3.413
14.13	14.27	799	142	0.63	0.142670	19.93	4.086	1.372	5.458	6.086	3.415
14.16	14.30	799	142	0.63	0.142962	19.94	4.085	1.373	5.458	6.085	3.415
14.19	14.33	800	142	0.63	0.143255	19.95	4.088	1.373	5.462	6.088	3.418
14.21	14.35	800	142	0.63	0.143538	19.95	4.087	1.374	5.461	6.087	3.417
14.24	14.38	800	142	0.63	0.143831	19.96	4.086	1.374	5.460	6.086	3.417
14.27	14.41	800	142	0.63	0.144053	19.97	4.085	1.375	5.459	6.085	3.417
14.30	14.44	800	142	0.62	0.144417	19.97	4.083	1.375	5.458	6.083	3.417
14.32	14.46	801	142	0.62	0.144629	19.98	4.087	1.376	5.463	6.087	3.419
14.35	14.49	801	142	0.62	0.144922	19.99	4.086	1.376	5.462	6.086	3,419
14.38	14.52	802	141	0.62	0.145214	19.99	4.089	1.377	5.466	6.089	3.421
14.40	14.54	803	141	0.62	0.145426	20.00	4.093	1.377	5.470	6.093	3.424
14.43	14.57	803	141	0.62	0.145719	20.00	4.092	1.378	5.469	6.092	3.423
14.45	14.59	804	141	0.62	0.145931	20.01	4.096	1.378	5.474	6.096	3.426
14.49	14.63	804	141	0.62	0.146295	20.02	4.094	1.378	5.473	6.094	3.426
14.51	14.65	804	141	0.62	0.146517	20.02	4.093	1.379	5.472	6.093	3.426

	Deform.	Celda	Presión	Incremento		Åres	Estuerro	13	a'1	=1	Erfuerzo
Deformación	Unitaria	Cargo	de poros	deportos	Deform.	Correction	Dervindor	Efectivo	Efectivo	Total	Promedio
(mm)	- 5	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(lat/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
14.54	14.68	805	141	0.62	0.146810	20.03	4.097	1.379	5,476	6.097	3.428
14.57	14.72	806	141	0.62	0.147173	20.04	4.100	1.380	5,480	6.100	3,430
14.60	14.75	807	141	0.62	0.147456	20.04	4.104	1 380	5,484	6.104	3,432
14.62	14.77	807	141	0.62	0.147678	20.05	4.103	1.381	5,484	6,103	3,432
14.65	14.80	807	141	0.62	0.147971	20.06	4 101	1 381	5.483	6 101	3.432
14.68	14.83	807	141	0.62	0.148254	20.06	4.100	1.382	5,482	6.100	3,432
14.70	14.85	807	141	0.62	0.148476	20.07	4.099	1.382	5,481	6.099	3,432
14.73	14.88	808	141	0.62	0.148769	20.08	4.103	1.383	5,485	6.103	3,434
14.75	14.90	808	141	0.62	0.148981	20.08	4.102	1.383	5,485	6.102	3,434
14.78	14.93	809	141	0.62	0.149274	20.09	4.105	1 384	5,489	6.105	3,436
14.81	14.96	809	141	0.62	0.149567	20.09	4.104	1.384	5,488	6.104	3,436
14.84	14.98	809	141	0.62	0.149850	20.10	4.103	1.385	5,487	6.103	3,436
14.86	15.01	810	141	0.62	0.150072	20.11	4.107	1.385	5,492	6.107	3,438
14.89	15.04	809	141	0.61	0.150365	20.11	4.100	1.385	5,486	6.100	3,435
14.91	15.06	809	141	0.61	0.150577	20.12	4.099	1.386	5,485	6.099	3,435
14.94	15.09	809	141	0.61	0.150869	20.13	4.098	1.386	5,484	6.098	3,435
14.98	15.12	810	140	0.61	0.151233	20.13	4.101	1.387	5,488	6.101	3,437
15.00	15.14	810	140	0.61	0.151445	20.14	4,100	1.387	5,487	6,100	3,437
15.03	15.17	810	140	0.61	0.151738	20.15	4.099	1.388	5,486	6.099	3,437
15.05	15.20	810	140	0.61	0.151960	20.15	4.097	1.388	5,486	6.097	3,437
15.08	15.22	810	140	0.61	0.152243	20.16	4.096	1 389	5,485	6.096	3,437
15.10	15.25	811	140	0.61	0.152465	20.16	4.100	1.389	5,489	6.100	3,439
15.12	15.27	811	140	0.61	0.152687	20.17	4.099	1,390	5,489	6.099	3,439
15.15	15.30	810	140	0.61	0.152970	20.18	4.093	1,390	5,483	6.093	3,436
15.17	15.32	811	140	0.61	0.153192	20.18	4.097	1.391	5,487	6.097	3,439
15.19	15.34	811	140	0.61	0.153404	20.19	4.096	1.391	5,487	6.096	3,439
15.22	15.37	811	140	0.61	0.153697	20.19	4.094	1.392	5,486	6.094	3,439
15.24	15.39	810	140	0.61	0.153919	20.20	4.088	1 392	5,480	6.088	3,436
15.26	15.41	811	140	0.61	0.154131	20.20	4.092	1.392	5,484	6.092	3,438
15.29	15.44	811	140	0.61	0.154424	20.21	4.091	1.393	5,483	6.091	3,438
15.31	15.46	810	140	0.61	0.154636	20.22	4.085	1.393	5.478	6.085	3,436
15.34	15.49	811	140	0.61	0.154858	20.22	4.088	1.394	5,482	6.088	3,438
15.96	15.51	811	140	0.61	0.155080	20.23	4.087	1 394	5.482	6.087	3438
15.39	15.54	811	140	0.61	0.155363	20.23	4.086	1.395	5,481	6.086	3,438
15.41	15.56	811	140	0.60	0.155585	20.24	4.085	1.395	5,480	6.085	3,438
15.44	15.59	811	140	0.60	0.155878	20.24	4.084	1.396	5.479	6.084	3,437
15.46	15.61	811	140	0.60	0.156090	20.25	4.083	1.396	5,479	6.083	3,437
15.48	15.63	811	199	0.60	0.156312	20.26	4.081	1,397	5.478	6.081	3,437
15.51	15.66	811	139	0.60	0.156595	20.26	4.080	1.397	5.477	6.080	3,437
15.53	15.68	811	139	0.60	0.156817	20.27	4.079	1.398	5,477	6.079	3,437
15.55	15.70	811	139	0.60	0.157029	20.27	4.078	1.398	5.476	6.078	3,437
15.58	15.73	812	139	0.60	0.157322	20.28	4.082	1.399	5,480	6.082	3,439
15.60	15.75	811	199	0.60	0.157544	20.28	4.075	1 399	5.474	6.075	3,437
15.62	15.78	812	139	0.60	0.157757	20.29	4.079	1.399	5.479	6.079	3,439
15.64	15.80	812	139	0.60	0.157979	20.30	4.078	1.400	5.478	6.078	3,439
15.67	15.83	812	139	0.60	0.158272	20.30	4.077	1.400	5,477	6.077	3,439
15.69	15.85	812	139	0.60	0.158484	20.31	4.076	1.401	5.477	6.076	3,439
15.72	15.87	812	139	0.60	0.158706	20.31	4.075	1.401	5,476	6.075	3,439
15.74	15.90	812	139	0.60	0.158989	20.32	4.074	1.402	5.475	6.074	3,439
15.77	15.92	812	139	0.60	0.159211	20.33	4.072	1.402	5.475	6.072	3.438
15.79	15.94	812	139	0.60	0.159433	20.33	4.071	1.403	5,474	6.071	3,438
15.82	15.97	813	139	0.60	0.159716	20.34	4.075	1.403	5.478	6.075	3.441

	Delarm	Califa	Presiden	Incremento		Åren	Lifeerro	13	- 11		Effuerzo
Deformación	Uniteria	Carga	de poros	deportos	Deform.	Correction	Dervindor	Efectivo	Efectivo	Total	Promedio
(mm)	5	N	(kPa)	(kgt/cm <sup>2</sup> )	Uniteria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(log!/cm <sup>2</sup> )
15.84	15.99	812	199	0.60	0.159938	20.94	4.069	1.404	5.473	6.059	3.438
15.86	16.01	813	199	0.60	0.160150	20.95	4.073	1404	5.477	6.073	3 441
15.89	16.04	812	199	0.60	0.160443	20.95	4.055	1.405	5.471	6.056	3.438
15.91	16.07	813	199	0.59	0.160665	20.35	4.070	1405	5.475	6.020	3.440
10.00	16.00	010	100	0.50	0.160077	20.27	1.000	1.405	E 475	6.050	2.440
15.96	16.12	813	199	0.59	0.161170	20.37	4.068	1.406	5.474	6.058	3,440
15.99	16.15	814	199	0.59	0.161463	20.38	4.072	1406	5.478	6.072	3.442
16.01	16.17	913	100	0.59	0.101075	20.30	1.055	1.407	5.473	6.066	2.440
16.03	16.19	813	138	0.59	0.161897	20.99	4.064	1.407	5.472	6.054	3,440
10.00	46.33	04.8	4.00	0.00	0.103100	20.40	1.000	4 400	C 476	6.004	0.440
16.00	16.22	91.8	130	0.59	0.162403	20.40	4.063	1.409	5,475	6.067	3,442
16.00	16.29	814	138	0.55	0.162695	20.40	4.067	1.409	5.475	6.065	3,442
10.14	44.90	01.4	4.00	0.55	0.102000	20.42	4.000	1.400	6.475	6.000	0.444
10.19	16.30	014	130	0.59	0.162377	20.42	4.004	1,410	5,473	6.064	2,441
10.10	42.00	013	130	0.35	0.103200	20.42	4.000	1,410	2,470	6.065	3,499
16.19	10.33	013	130	0.59	0.103992	20.45	4.007	1.410	2.477	0.007	3,443
10.22	10.30	013	130	0.55	0.103/75	20.44	4.000	1.411	5,470	6.063	3,443
10.24	10.40	010	130	0.55	0.103097	20.44	4.000	1.011	5,400	6.063	3,440
16.26	16.42	817	138	0.59	0.164219	20.45	4.073	1.412	5,485	6.073	3,448
16.29	16.45	818	138	0.59	0.164502	20.45	4.077	1.412	5,489	6.077	3,450
16.31	16.47	818	138	0.59	0.154724	20.46	4.076	1.412	5,466	6.076	3,450
16.34	16.50	818	138	0.59	0.165017	20.47	4.074	1.413	5.487	6.074	3.450
15.35	16.52	819	138	0.59	0.165229	20.47	4.078	1.413	5,492	6.078	3.452
16.38	16.55	819	138	0.59	0.165451	20.48	4.077	1.414	5,491	6.077	3.452
16.41	16.57	820	138	0.59	0.165734	20.48	4.081	1.414	5,495	6.081	3.455
16.43	16,60	820	138	0.59	0.165956	20.49	4.080	1.415	5,494	6.080	3,455
16.46	16.62	821	138	0.58	0.166249	20.50	4.083	1.415	5,498	6.083	3.457
16.49	16.65	822	138	0.58	0.166532	20.50	4.087	1.416	5.502	6.087	3,459
16.51	16.68	822	138	0.58	0.166754	20.51	4.086	1.416	5.502	6.086	3,459
16.54	16.70	822	137	0.58	0.167047	20.52	4.084	1.417	5.501	6.084	3.459
16.57	16.73	822	137	0.58	0.167330	20.52	4.083	1.417	5.500	6.083	3.459
16.60	16.76	823	137	0.58	0.167623	20.53	4.086	1.418	5.504	6.086	3.461
16.62	16.78	823	137	0.58	0.167845	20.54	4.085	1.418	5.503	6.085	3.461
16.65	16.81	824	137	0.58	0.168128	20.54	4.089	1.419	5.507	6.089	3.463
16.67	16.83	825	137	0.58	0.168350	20.55	4.093	1.419	5.512	6.093	3.465
16.70	16.86	825	137	0.58	0.168643	20.56	4.091	1.419	5.511	6.091	3.465
16.72	16.89	826	137	0.58	0.168855	20.56	4.095	1.420	5.515	6.095	3.468
16.75	16.91	826	137	0.58	0.169147	20.57	4.094	1.420	5.514	6.094	3.467
16.78	16.94	826	137	0.58	0.169440	20.58	4.092	1.421	5.513	6.092	3.467
16.80	16.97	827	137	0.58	0.169652	20.58	4.096	1.421	5.518	6.096	3.469
16.82	16.99	827	137	0.58	0.169875	20.59	4.095	1.422	5.517	6.095	3,469
16.85	17.02	828	137	0.58	0.170167	20.59	4.099	1.422	5.521	6.099	3.472
16.87	17.04	828	137	0.58	0.170379	20.60	4.098	1.423	5.520	6.098	3.472
16.90	17.07	828	137	0.58	0.170672	20.61	4.096	1.423	5.519	6.096	3.471
16.92	17.09	829	137	0.58	0.170884	20.61	4.100	1.424	5.524	6.100	3.474
16.95	17.12	828	137	0.58	0.171177	20.62	4.094	1.424	5.518	6.094	3.471
16.97	17.14	829	137	0.58	0.171399	20.62	4.097	1.425	5.522	6.097	3.473
17.00	17.17	829	137	0.57	0.171682	20.63	4.096	1.425	5.521	6.096	3.473
17.02	17.19	829	137	0.57	0.171904	20.64	4.095	1.426	5.520	6.095	3.473
17.05	17.22	830	137	0.57	0.172197	20.64	4.098	1.426	5.524	6.098	3.475
17.07	17.24	829	137	0.57	0.172409	20.65	4.092	1.426	5.519	6.092	3.473
17.10	17.27	830	136	0.57	0.172702	20.66	4.096	1.427	5.523	6.096	3.475
17.12	17.29	830	136	0.57	0.172924	20.66	4.095	1.427	5.522	6.095	3.475

ľ		Deform.	Celda	Presión	Incremento		Åres	Estuerro	13	11	=1	Erfuerzo
	Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Dervision	Efectivo	Electivo	Total	Promedio
	(mm)	5	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(legt/cm <sup>2</sup> )	(hgt/cm <sup>2</sup> )
ŕ	17.15	17.32	830	196	057	0 173207	20.67	4.093	1.428	5 5 2 1	6.093	3.475
ŀ	17.17	17.34	831	196	0.57	0 173429	20.67	4.097	1428	5 5 2 6	6.097	3477
ŀ	17.20	17.36	830	196	0.57	0.173641	20.68	4 091	1.429	5.520	6.091	3.474
ŀ	17.22	17.39	830	196	0.57	0.173934	20.69	4.090	1429	5 5 1 9	6.090	3.474
ŀ	17.36	17.43	930	100	0.57	0.174156	20.00	4.090	1.420	6 6 1 0	6.000	0.474
ŀ	17.13	17.44	0.30	130	0.57	0.174130	20.03	4.000	1.490	5,510	6.063	2,474
ŀ	17.30	17.47	831	196	857	0.174661	20.70	4.091	1.431	5 5 2 2	6.091	3,476
ŀ	17.00	17.50	021	100	0.57	0.174001	20.71	4.000	1.401	6 6 3 4	6.092	2,470
ŀ	17.33	17.50	031	130	0.57	0.174934	20.71	4.000	1.401	0.021	6.090	3,470
ŀ	47.50	47.00	000	4.00	0.57	0.1752530	20.72	4.000	1.400	6 6 3 4	6.000	0.470
ŀ	17.30	17.20	832	139	0.57	0.175030	20.72	4.092	1.402	0.029	6.092	2,479
ŀ	17.40	17.20	832	130	0.57	0.175752	20.73	4.091	1,400	5,523	6.091	3,479
ŀ	17.45	47.00	032	4.00	0.37	0.13.3504	20.74	4.000	1,100	6.633	0.000	3,470
ŀ	17.45	17.63	832	1.36	0.57	0.176257	20.75	4.088	1.433	5.522	6.088	3.478
ŀ	17.40	17.00	0.32	1.30	0.57	0.176350	20.75	4.007	1,434	5.521	0.007	3,477
ŀ	17.50	17.68	832	135	0.57	0.176762	20.76	4.085	1.434	5.520	6.086	3.A77
	17.53	17.70	833	135	0.57	0.176984	20.76	4.089	1.435	5.524	6.089	3,480
	17.55	17.72	832	135	0.56	0.177196	20.77	4.083	1.435	5.519	6.083	3.A//
ŀ	17.58	17.75	832	136	0.56	0.177489	20.78	4.082	1.435	5.518	6.082	3.A77
L	17.60	17.77	832	1.35	0.56	0.177711	20.78	4.081	1.435	5.517	6.081	3.477
L	17.63	17.80	832	135	0.56	0.177994	20.79	4.080	1.437	5.516	6.080	3.477
L	17.65	17.82	833	135	0.56	0.178216	20.80	4.083	1.437	5.521	6.083	3.479
L	17.67	17.84	832	135	0.56	0.178428	20.80	4.077	1.438	5.515	6.077	3.476
L	17.70	17.87	832	135	0.56	0.178721	20.81	4.076	1.438	5.514	6.076	3,476
	17.73	17.90	833	135	0.56	0.179014	20.82	4.079	1.439	5.518	6.079	3.478
L	17.75	17.92	832	135	0.56	0.179226	20.82	4.073	1.439	5.512	6.073	3.476
	17.77	17.94	833	135	0.56	0.179448	20.83	4.077	1.440	5.517	6.077	3.478
	17.80	17.97	833	135	0.56	0.179741	20.83	4.076	1.440	5.516	6.076	3.478
	17.83	18.00	833	135	0.56	0.180023	20.84	4.074	1.440	5.515	6.074	3.478
	17.85	18.02	833	135	0.56	0.180246	20.85	4.073	1.441	5.514	6.073	3.478
	17.88	18.05	833	135	0.56	0.180538	20.85	4.072	1.441	5.513	6.072	3,477
ſ	17.90	18.08	834	135	0.56	0.180751	20.86	4.076	1.442	5.517	6.076	3.480
ſ	17.93	18.10	834	135	0.56	0.181043	20.87	4.074	1.442	5.516	6.074	3.479
	17.95	18.13	834	135	0.56	0.181266	20.87	4.073	1.443	5.516	6.073	3.479
ſ	17.98	18.15	834	135	0.56	0.181548	20.88	4.072	1.443	5.515	6.072	3.479
ľ	18.00	18.18	834	135	0.56	0.181770	20.89	4.071	1.444	5.514	6.071	3.479
ſ	18.03	18.21	835	135	0.56	0.182063	20.89	4.074	1.444	5.518	6.074	3.481
ſ	18.05	18.23	834	135	0.56	0.182275	20.90	4.068	1.445	5.513	6.068	3.479
ľ	18.08	18.26	835	135	0.55	0.182568	20.91	4.071	1.445	5.517	6.071	3.481
ľ	18.10	18.28	835	135	0.55	0.182780	20.91	4.070	1.446	5.516	6.070	3.481
ľ	18.13	18.31	835	135	0.55	0.183073	20.92	4.069	1.446	5.515	6.069	3.481
ľ	18.15	18.33	836	135	0.55	0.183295	20.92	4.073	1.447	5.519	6.073	3,483
ľ	18.17	18.35	835	134	0.55	0.183507	20.93	4.067	1.447	5.514	6.067	3,480
ŀ	18.20	18.38	837	134	0.55	0.183800	20.94	4,075	1.447	5.523	6.075	3,485
ŀ	18.22	18.40	837	134	0.55	0.184022	20.94	4.074	1,448	5,522	6.074	3,485
ŀ	18,24	18.42	837	134	0.55	0.184234	20.95	4,073	1,448	5,521	6.073	3,485
ŀ	18.27	18.45	838	134	0.55	0.184527	20.96	4,076	1.449	5.525	6.076	3,487
ŀ	18.29	18.47	838	134	0.55	0.184739	20.96	4.075	1.449	5.525	6.075	3,487
ŀ	18.32	18.50	839	134	0.55	0.184962	20.97	4,079	1.450	5,529	6.079	3,489
ŀ	18.94	18 52	839	194	055	0.185174	20.97	4,078	1,450	5 5 2 8	6,078	3,499
ŀ	18 97	18.55	840	194	055	0.185466	20.98	4 081	1.451	5 5 8 3	6.081	3,491
ŀ	19.40	19.59	240	104	ARE	0.195750	30.00	4 000	1 451	5 6 5 4	6.000	9.404
ŀ	18.43	18.00	840	104	0.55	0.185074	20.99	4,079	1,453	5,000	6,000	3,401
1	444.992	10000	10410	4.39	0.33	0.00001	110.22	4793.5	1.434		10. CF 27	10.00

	Deferm	Califa	Presiden	Incremento		Area	Enforme	a 13	11	:1	Eduerap
Deformación	Unitaria	Cores	de norm	descent	Deform.	Correction	Bendador	Harther	Harthen	Total	Promedia
(mm)		N	(kPa)	(hat(cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	Burtlem <sup>2</sup>	(ket/cm <sup>2</sup> )	(ket/cm <sup>2</sup> )	(kat/cm <sup>2</sup> )	Budlem <sup>2</sup> 1
	40.00			0.57	0.00000	24.00	1.000		C. C. S.C.	0.000	2.402
18.44	18.52	841	134	0.55	0.186194	21.00	4.083	1.452	5.535	6.083	3.493
18.47	18.65	841	134	0.55	0.186486	21.01	4.081	1.455	5.534	6.081	3.493
18.49	18.67	841	134	0.55	0.186698	21.01	4.080	1.453	5.533	6.080	3.493
18.52	18.70	842	134	0.55	0.186991	21.02	4.083	1.454	5.537	6.083	3.495
18.54	18.72	843	134	0.55	0.187213	21.03	4.087	1.454	5.541	6.087	3.498
18.56	18.74	844	134	0.55	0.187426	21.03	4.091	1.454	5.545	6.091	3.500
18.59	18.77	844	134	0.55	0.187718	21.04	4.089	1.455	5.544	6.089	3.500
18.61	18.79	845	134	0.54	0.187930	21.04	4.093	1.455	5.549	6.093	3.502
18.63	18.82	845	134	0.54	0.188153	21.05	4.092	1.456	5.548	6.092	3.502
18.66	18.84	845	134	0.54	0.188445	21.06	4.091	1.456	5.547	6.091	3.502
18.68	18.87	846	133	0.54	0.188658	21.06	4.094	1.457	5.551	6.094	3.504
18.70	18.89	845	133	0.54	0.188880	21.07	4.088	1.457	5.546	6.088	3.501
18.73	18.91	847	133	0.54	0.189092	21.07	4.097	1.458	5.555	6.097	3.506
18.75	18.93	847	133	0.54	0.189314	21.08	4.096	1.458	5.554	6.096	3.506
18,78	18.96	847	133	0.54	0.189607	21.09	4.094	1.459	5,553	6.094	3,506
18.80	18.98	847	133	0.54	0.189819	21.09	4.093	1.459	5,552	6.093	3,506
18.82	19.00	848	133	0.54	0.190041	21.10	4.097	1.460	5.557	6.097	3.508
18.84	19.03	848	198	0.54	0.190253	21.10	4.096	1.460	5 556	6.096	3 508
18.87	19.05	849	133	0.54	0.190546	21.11	4.099	1.461	5,560	6.099	3,510
18.89	19.08	849	198	0.54	0 190768	21.12	4 098	1.461	5 559	6.098	3,510
18.91	19.10	851	198	0.54	0 190980	21.12	4 107	1.461	S SER	6 107	3 5 1 5
18.93	19.12	851	193	0.54	0.191202	21.13	4.106	1.463	5 568	6 106	2515
10.00	10.15	024	400	0.54	0.101205	34.44	4 104	1.463	0.000	6.300	0 6 1 4
10.00	10.13	100	133	0.54	0.191903	21.19	4,109	1,462	5.307	6.109	3.314
10.30	10.17	100	133	0.54	0.191/07	21.19	4.105	1,463	5,300	6.103	3.314
15.01	13.20	022	130	0.04	0.132000	21.15	4.100	1,403	5.570	0.100	3.317
19.05	19.22	852	133	0.54	0.192212	21.15	4.105	1.404	5,569	6.105	3.310
19.06	19.25	851	133	0.54	0.192505	21.16	4.099	1.464	5.363	6.099	3.514
19.09	19.78	852	133	0.54	0.192798	21.17	4.102	1.465	5.567	6.102	3.516
19.11	19.30	852	133	0.53	0.193010	21.18	4.101	1.465	5,565	6.101	3.516
19.14	19.33	852	133	0.53	0.193303	21.18	4.100	1.455	5,565	6.100	3.516
19.17	19.36	853	133	0.53	0.193596	21.19	4.103	1.465	5.569	6.103	3.518
19.19	19.38	853	132	0.53	0.193808	21.20	4.102	1.467	5.569	6.102	3.518
19.22	19.41	854	132	0.53	0.194101	21.21	4.105	1.467	5.572	6.105	3.520
19.24	19.43	854	132	0.53	0.194313	21.21	4.104	1.468	5.572	6.104	3.520
19.28	19.47	855	132	0.53	0.194676	21.22	4.107	1.468	5.575	6.107	3.522
19.31	19.50	856	132	0.53	0.194969	21.23	4.111	1.468	5.579	6.111	3.524
19.33	19.52	856	132	0.53	0.195191	21.23	4.109	1.469	5.578	6.109	3.524
19.36	19.55	857	132	0.53	0.195474	21.24	4.113	1.469	5.582	6.113	3.526
19.39	19.58	858	132	0.53	0.195767	21.25	4.116	1.470	5.586	6.116	3.528
19.41	19.60	858	132	0.53	0.195989	21.25	4.115	1.470	5.585	6.115	3.528
19.43	19.62	858	132	0.53	0.196201	21.26	4.114	1.471	5.585	6.114	3.528
19.47	19.66	859	132	0.53	0.196565	21.27	4.117	1.471	5.588	6.117	3.530
19.49	19.69	860	132	0.53	0.196857	21.28	4.120	1.472	5.592	6.120	3.532
19.52	19.71	860	132	0.53	0.197069	21.28	4.119	1.472	5.591	6.119	3.532
19.54	19.74	860	132	0.53	0.197362	21.29	4.117	1.473	5.590	6.117	3.531
19.57	19.77	860	132	0.53	0.197655	21.30	4.116	1.473	5.589	6.116	3.531
19.60	19.79	861	132	0.53	0.197948	21.31	4.119	1.474	5.593	6.119	3.533
19.62	19.82	862	132	0.53	0.198160	21.31	4.123	1.474	5.597	6.123	3.536
19.65	19.85	862	132	0.53	0.198453	21.32	4,121	1,475	5,596	6,121	3,535
19.68	19.87	863	132	0.53	0.198746	21.33	4,125	1,475	5,600	6,125	3,537
19.71	19.90	863	192	0.52	0.199029	21.94	4 123	1.475	5 599	6 123	3 5 8 7
19.73	19.93	863	132	0.52	0.199251	21.94	4,122	1,476	5.598	6,122	3.537

Deformación	Deform. Unitaria	Celds Cargs	Presión de poros	Incremento deporos	Deform.	Åres Corregids	Estuerzo Desvindor	s'3 Efectivo	s'1 Efectivo	s1 Total	Erfuerzo Promedio
		N	(kPa)	(kg//cm <sup>*</sup> )		(cm <sup>2</sup> )	(kg//cm*)	(kgi/cm <sup>*</sup> )	(kgl/cm <sup>2</sup> )	(kgt/cm²)	(lagt/cm <sup>2</sup> )
19.76	19.95	863	132	0.52	0.199544	21.35	4.121	1.476	5.597	6.121	3.537
19.79	19.98	863	131	0.52	0.199826	21.36	4.119	1.477	5.596	6.119	3.536
19.81	20.00	863	131	0.52	0.200048	21.36	4.118	1.477	5.595	6.118	3.536
19.84	20.03	863	131	0.52	0.200341	21.37	4.116	1.478	5.594	6.116	3.536
19.87	20.06	863	131	0.52	0.200624	21.38	4.115	1.478	5.593	6.115	3.536
19.90	20.09	863	131	0.52	0.200917	21.39	4.114	1.479	5.592	6.114	3.535
19.93	20.12	863	131	0.52	0.201210	21.39	4.112	1.479	5.591	6.112	3.535
19.95	20.14	863	131	0.52	0.201422	21.40	4.111	1.480	5.591	6.111	3.535
19.98	20.17	862	131	0.52	0.201715	21.41	4.105	1.480	5.585	6.105	3.532
20.00	20.20	862	131	0.52	0.202008	21.42	4.103	1.481	5.584	6.103	3.532
20.03	20.23	861	131	0.52	0.202300	21.42	4.097	1.481	5.578	6.097	3.529
20.05	20.25	862	131	0.52	0.202512	21.43	4.101	1.481	5.582	6.101	3.532
20.08	20.28	862	131	0.52	0.202805	21.44	4.099	1.482	5.581	6.099	3.531
20.11	20.31	862	131	0.52	0.203098	21.44	4.098	1.482	5.580	6.098	3.531
20.13	20.33	863	131	0.52	0.203310	21.45	4.101	1.483	5.584	6.101	3.533
20.16	20.35	862	131	0.52	0.203532	21.46	4.095	1.483	5.579	6.095	3.531
20.18	20.38	862	131	0.52	0.203815	21.46	4.094	1.484	5.578	6.094	3.531
20.21	20.41	862	131	0.52	0.204108	21.47	4.092	1.484	5.577	6.092	3.530

## TRIAXIAL ESTATICO CU - OCR 2.0 INV E153

Fecha 14-mar.-2013

	Variabilidad en el co	nto y largo plazo del estado d	e esfuerzos en las	lenas	
Proyecto:	conformadas por su	elos residuales		Localización:	Caldes, Antioquia
Sondeo	1	Muestra:	1	Profundidad:	1,5 m
Descripción de l	a Muestra:	Limo de alta co	mpresibilidad o	olor rojizo con motas amarillentas y	zonas negras

	P	rin
Datos de la muestra		
Diámetro (cm)	4.750	
Altura (cm)	10.00	
Area (cm <sup>2</sup> )	17.72	
Volumen (cm <sup>3</sup> )	177.21	
Humedad (%)	48.1	
Peso del suelo humedo (g)	312.40	
Peso del suelo seco (g)	211.0	
Masa unitaria húmoda (g/cm <sup>3</sup> )	1.76	
Masa unitaria seca (g/cm <sup>3</sup> )	1.19	
Gravedad específica	2.74	
Relación de vacios	1.30	
Saturación (%)	101.21	

Etapa de saturación						
Deformación por saturación (mm)	0					
Diámetro (cm)	4.750					
Altura (cm)	10.000					
Area (cm <sup>2</sup> )	17.721					
Volumen (cm <sup>3</sup> )	177.21					
Masa unitaria seca (g/cm²)	1.19					

ner incre	mento	
	Datos del Ensayo	
	Presión de poros inducida (kgf/cm <sup>2</sup> )	1.00
	Presión de cámara (kgf/cm²)	1.50
	Presión efectiva (kgf/cm²)	0.50
	Parámetro B	1
	Vel. de aplicación de carga (mm/min)	0.1

Etapa de Consolidación	
Deformación por consolidación (mm)	0.50
Lectura inicial de la bureta (cm <sup>8</sup> )	18.20
Lectura final de la bureta (cm <sup>8</sup> )	10.60
Cambio volumen consolidación (cm <sup>8</sup> )	7.60
Altura (cm)	9.95
Volumen (cm²)	169.61
Area (cm²)	17.05
Masa unitaria seca (g/cm <sup>8</sup> )	1.24

Humedad Post-falla				
Peso suelo humedo + tara (g)	385.10			
Peso suelo seco + tara (g)	277.26			
Peso tara (g)	71.29			
Humedad Post-falla (%)	52.36			
Saturación (%)	110.22			

Datos de la muestra		
Diámetro (cm)	4.7475	
Altura (cm)	9.954	
Area (cm²)	17.702	
Volumen (cm <sup>2</sup> )	176.20	
Humedad (%)	51.09	
Peso del suelo humedo (g)	312.25	
Peso del suelo seco (g)	206.66	
Masa unitaria húmeda (g/cm <sup>2</sup> )	1.77	
Masa unitaria seca (g/cm²)	1.17	
Gravedad específica	2.74	
Relación de vacios	1.34	
Saturación (%)	104.77	
		I

ido Incremento					
Datos del Ensayo					
Presión de poros inducida (kgf/cm <sup>2</sup> )	1.0				
Presión de cámara (kgf/cm <sup>2</sup> )	2.0				
Presión efectiva (kgt/cm²)	1.0				
Parámetro B	1				
Vel. de aplicación de carga (mm/min)	0.1				

Etapa de Consolidación					
Deformación por consolidación (mm)	1.020				
Lectura inicial de la bureta (cm <sup>8</sup> )	20.30				
Lectura final de la bureta (cm <sup>8</sup> )	13.90				
Cambio volumen consolidación (cm <sup>8</sup> )	6.40				
Altura (cm)	9.85				
Volumen (cm <sup>®</sup> )	169.80				

## 7:27 p. m.

Deformación por saturación (mm)	0
Diámetro (cm)	4.7475
Altura (cm)	9.95
Area (cm <sup>2</sup> )	17.702
Volumen (cm <sup>3</sup> )	176.20
Masa unitaria seca (g/cm³)	1.17

Datos de la muestra

Diámetro (cm)

Altura (cm)

Area (cm <sup>2</sup> )	17.24
Masa unitaria seca (g/cm <sup>2</sup> )	1.22

		Humedad Post-falla	
		Peso suelo humedo + tara (g)	380.69
		Peso suelo seco + tara (g)	276.23
		Peso tara (g)	71.84
		Humedad Post-falla (%)	51.11
		Saturación (%)	104.81
Ţ	ercer Incre	mento	
		Datos del Ensayo	
		Presión de poros inducida (kgf/cm <sup>2</sup> )	1.0
		Presión de cámara (kgt/cm²)	3.0
		Presión efectiva (kgf/cm <sup>2</sup> )	2.0
		Parámetro B	1

Area (cm <sup>2</sup> )	18.09	Presión efectiva (kgf/cm <sup>2</sup> )
Volumen (cm <sup>3</sup> )	180.26	Parámetro B
Humedad (%)	51.29	Vel. de aplicación de carga (mm/min)
Peso del suelo humedo (g)	311.21	
Peso del suelo seco (g)	205.71	
Masa unitaria húmeda (g/cm <sup>2</sup> )	1.73	Etapa de Consolidació
Masa unitaria seca (g/cm³)	1.14	Deformación por consolidación (mm)
Gravedad específica	2.74	Lectura inicial de la bureta (cm <sup>3</sup> )
Relación de vacios	1.40	Lectura final de la bureta (cm <sup>2</sup> )
Saturación (%)	100.30	Cambio volumen consolidación (cm <sup>3</sup> )
		Altura (cm)

4.800

9,96

Etapa de saturación					
Deformación por saturación (mm)	0.000				
Diámetro (cm)	4.800				
Altura (cm)	9.964				
Area (cm²)	18.09				
Volumen (cm <sup>2</sup> )	180.26				
Masa unitaria seca (g/cm <sup>3</sup> )	1.14				

Etapa de Consolidación						
Deformación por consolidación (mm)	2.01					
Lectura inicial de la bureta (cm <sup>3</sup> )	22.00					
Lectura final de la bureta (cm <sup>®</sup> )	9.60					
Cambio volumen consolidación (cm <sup>3</sup> )	12.40					
Altura (cm)	9.76					
Volumen (cm <sup>3</sup> )	167.86					
Area (cm <sup>2</sup> )	17.19					
Masa unitaria seca (g/cm <sup>3</sup> )	1.23					

0.1

Humodad Post-falla					
Peso suelo humedo + tara (g)	374.76				
Peso suelo seco + tara (g)	280.43				
Peso tara (g)	71.27				
Humedad Post-falla (%)	45.10				
Saturación (%)	88.20				

	Etapa de falla primer incremento										
Deformación (mm)	Deform. Unitaria N	Celda Carga N	Presión de poros (kPa)	Incremento deporos (kgt/cm <sup>2</sup> )	Deform. Unitaria	Åres Corregids (cm <sup>2</sup> )	Estuerzo Desviador (kgt/cm <sup>*</sup> )	s'3 Efectivo (kgl/cm²)	s'1 Efectivo (kgt/cm <sup>2</sup> )	s1 Total (kgt/cm²)	Enfuerzo Promedio (kgt/cm <sup>2</sup> )
0.00	0.00	0	101	0.00	0.0000000	17.05	0.000	0.500	0.500	0.500	0.500
0.02	0.02	33	101	0.00	0.000221	17.05	0.227	0.497	0.724	0.727	0.611
0.04	0.04	50	102	0.01	0.000432	17.05	0.299	0.492	0.791	0.799	0.641
0.07	0.07	8	103	0.02	0.000724	17.06	0.359	0.483	0.842	0.859	0.663
0.09	0.09	70	103	0.02	0.000945	17.06	0.418	0.478	0.896	0.918	0.687
0.12	0.12	78	104	0.03	0.001156	17.07	0.466	0.472	0.938	0.966	0.705
0.14	0.14	85	104	0.03	0.001447	17.07	0.508	0.467	0.974	1.008	0.720
0.17	0.17	92	105	0.04	0.001668	17.07	0.549	0.464	1.013	1.049	0.738
0.19	0.19	98	105	0.04	0.001950	17.08	0.585	0.458	1.043	1.085	0.751
0.22	0.22	103	105	0.05	0.002171	17.08	0.615	0.453	1.067	1.115	0.760
0.25	0.25	108	105	0.05	0.002462	17.09	0.644	0.450	1.094	1.144	0.772
0.27	0.27	112	106	0.05	0.002673	17.09	0.668	0.447	1.115	1.158	0.781

	Deform.	Celda	Presiden	Incremento		Åres	Erfuerro	- 13	11	11	Erfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Derviedor	Electivo	Electivo	Total	Promedio
(mm)		N	(kPa)	(kgt/cm <sup>*</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm²)	(kgl/cm <sup>2</sup> )	(kgf/cm²)	(kgf/cm <sup>2</sup> )
0.29	0.29	116	107	0.06	0.002894	17.10	0.692	0.441	1.133	1.192	0.787
0.31	0.31	121	107	0.06	0.003106	17.10	0.721	0.439	1.160	1.221	0.799
0.33	0.33	126	108	0.07	0.003327	17.10	0.751	0.433	1.184	1.251	0.809
0.36	0.36	130	108	0.07	0.003618	17.11	0.775	0.430	1.205	1.275	0.818
0.38	0.38	134	108	0.07	0.003829	17.11	0.798	0.428	1.226	1.298	0.827
0.40	0.41	138	109	0.08	0.004050	17.12	0.822	0.422	1.244	1.322	0.833
0.43	0.43	141	109	0.08	0.004332	17.12	0.840	0.416	1.256	1.340	0.836
0.46	0.46	145	109	0.08	0.004623	17.13	0.863	0.416	1.279	1.363	0.848
0.48	0.48	148	110	0.09	0.004844	17.13	0.881	0.411	1.292	1.381	0.851
0.50	0.51	152	110	0.09	0.005055	17.13	0.904	0.411	1.315	1.404	0.863
0.53	0.53	155	110	0.09	0.005347	17.14	0.922	0.405	1.327	1.422	0.866
0.55	0.56	158	111	0.10	0.005558	17.14	0.940	0.402	1.342	1.440	0.872
0.58	0.58	161	111	0.10	0.005779	17.15	0.957	0.400	1.357	1.457	0.878
0.60	0.61	163	111	0.10	0.006070	17.15	0.969	0.397	1.366	1.469	0.881
0.63	0.63	166	111	0.11	0.006281	17.15	0.986	0.394	1.381	1.486	0.887
0.65	0.66	169	112	0.11	0.006573	17.16	1.004	0.391	1.395	1.504	0.893
0.68	0.69	171	112	0.11	0.006864	17.16	1.016	0.389	1.404	1.516	0.896
0.70	0.71	174	112	0.11	0.007075	17.17	1.033	0.386	1.419	1.533	0.902
0.73	0.74	176	113	0.12	0.007367	17.17	1.045	0.383	1.428	1.545	0.905
0.76	0.76	179	113	0.12	0.007588	17.18	1.062	0.380	1.442	1.562	0.911
0.78	0.79	181	113	0.12	0.007869	17.18	1.074	0.380	1.454	1.574	0.917
0.81	0.82	184	113	0.12	0.008161	17.19	1.091	0.377	1.469	1.591	0.923
0.83	0.84	186	113	0.13	0.008382	17.19	1.103	0.375	1.478	1.603	0.926
0.86	0.86	189	114	0.13	0.008593	17.19	1.121	0.372	1.492	1.621	0.932
0.88	0.89	192	114	0.13	0.0068884	17.20	1.138	0.369	1.507	1.638	0.938
0.91	0.92	193	114	0.13	0.009176	17.20	1.144	0.369	1.513	1.644	0.941
0.93	0.94	195	114	0.13	0.009387	17.21	1.155	0.366	1.521	1.655	0.944
0.96	0.97	197	115	0.14	0.009678	17.21	1.167	0.363	1.530	1.667	0.947
0.98	0.99	199	115	0.14	0.009889	17.22	1.178	0.363	1.542	1.678	0.953
1.01	1.02	200	115	0.14	0.010181	17.22	1.184	0.361	1.544	1.684	0.953
1.04	1.05	202	115	0.14	0.010472	17.23	1.195	0.361	1.556	1.695	0.958
1.07	1.08	204	115	0.14	0.010764	17.23	1.207	0.358	1.565	1.707	0.961
1.10	1.10	205	115	0.14	0.011045	17.24	1.212	0.358	1.570	1.712	0.964
1.12	1.13	207	115	0.14	0.011266	17.24	1.224	0.355	1.579	1.724	0.967
1.15	1.16	208	115	0.14	0.011558	17.25	1.229	0.355	1.585	1.729	0.970
1.17	1.18	210	115	0.14	0.011769	17.25	1.241	0.355	1.596	1.741	0.976
1.20	1.21	212	116	0.15	0.012060	17.25	1.252	0.352	1.605	1.752	0.979
1.22	1.23	213	116	0.15	0.012271	17.26	1.258	0.352	1.610	1.758	0.981
1.25	1.26	215	116	0.15	0.012563	17.26	1.270	0.350	1.619	1.770	0.984
1.28	1.29	217	116	0.15	0.012854	17.27	1.281	0.350	1.630	1.781	0.990
1.31	1.31	218	115	0.15	0.013146	17.27	1.287	0.347	1.633	1.787	0.990
1.33	1.34	219	116	0.15	0.013357	17.28	1.292	0.347	1.639	1.792	0.993
1.36	1.36	220	116	0.15	0.013648	17.28	1.298	0.347	1.644	1.798	0.996
1.38	1.39	221	116	0.15	0.013859	17.29	1.303	0.347	1.650	1.803	0.998
1.41	1.42	222	116	0.15	0.014151	17.29	1.309	0.347	1.655	1.809	1.001
1.44	1.44	223	116	0.16	0.014442	17.30	1.314	0.344	1.658	1.814	1.001
1.46	1.47	224	116	0.16	0.014653	17.30	1.320	0.344	1.664	1.820	1.004
1.49	1.49	225	116	0.16	0.014945	17.30	1.325	0.344	1.669	1.825	1.007
1.51	1.52	226	116	0.16	0.015166	17.31	1.331	0.344	1.675	1.831	1.009
1.54	1.55	226	116	0.16	0.015457	17.31	1.331	0.344	1.675	1.831	1.009
1.56	1.57	228	117	0.16	0.015668	17.32	1.342	0.341	1.683	1.842	1.012
1.59	1.60	229	117	0.16	0.015960	17.32	1.348	0.341	1.689	1.848	1.015

	Deform.	Celda	Presiden	Incremento		Area	Lifeero .	13	11	11	Erfuerzo
Deformación	Unitaria	Cares	de poros	deportos	Deform.	Cornerida	Dervindor	Electivo	Electivo	Total	Promedio
(mm)	56	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(hgt/cm <sup>2</sup> )
1.62	1.63	230	117	0.16	0.016251	17.33	1.353	0.341	1.694	1.853	1.018
1.64	1.65	231	117	0.16	0.016462	17.33	1.359	0.341	1.700	1.859	1.020
1.67	1.68	232	117	0.16	0.016754	17.34	1.364	0.338	1,702	1.864	1.020
1.69	1.70	233	117	0.16	0.016965	17.34	1.370	0.341	1.711	1.870	1.026
1.71	1.72	234	117	0.16	0.017186	17.34	1.375	0.341	1,716	1.875	1.029
1.74	1.75	234	117	0.16	0.017477	17.35	1.375	0.338	1.713	1.875	1.026
1.76	1.77	236	117	0.16	0.017688	17.35	1.386	0.338	1.725	1.886	1.032
1.79	1.80	236	117	0.16	0.017980	17.36	1.386	0.338	1.724	1.886	1.031
1.81	1.82	237	117	0.16	0.018191	17.36	1.391	0.338	1.730	1.891	1.034
1.84	1.85	238	117	0.16	0.018482	17.37	1.397	0.338	1.735	1.897	1.037
1.86	1.87	239	117	0.16	0.018703	17.37	1.402	0.338	1.741	1.902	1.040
1.88	1.89	240	117	0.16	0.018915	17.37	1.408	0.341	1.749	1.908	1.045
1.91	1.92	240	117	0.16	0.019206	17.38	1.408	0.341	1.749	1.908	1.045
1.94	1.95	241	117	0.16	0.019497	17.39	1.413	0.341	1.754	1.913	1.048
1.96	1.97	242	117	0.16	0.019708	17.39	1.419	0.338	1.757	1.919	1.048
1.99	2.00	243	117	0.16	0.020000	17.39	1.424	0.341	1.765	1.924	1.053
2.01	2.02	244	117	0.16	0.020221	17.40	1.430	0.341	1.771	1.930	1.056
2.03	2.04	244	117	0.16	0.020432	17.40	1.429	0.338	1.768	1.929	1.053
2.06	2.07	245	117	0.16	0.020724	17.41	1.435	0.341	1.776	1.935	1.059
2.08	2.09	246	117	0.16	0.020935	17.41	1.440	0.341	1.781	1.940	1.061
2.11	2.12	247	117	0.16	0.021226	17.42	1.446	0.341	1.787	1.946	1.064
2.13	2.14	248	117	0.16	0.021447	17.42	1.451	0.341	1.792	1.951	1.067
2.16	2.17	248	117	0.16	0.021729	17.42	1.451	0.341	1.792	1.951	1.067
2.18	2.19	249	117	0.16	0.021950	17.43	1.456	0.341	1.797	1.956	1.069
2.21	2.22	250	117	0.16	0.022171	17.43	1.462	0.341	1.803	1.962	1.072
2.23	2.25	251	117	0.16	0.022452	17.44	1.467	0.341	1.808	1.967	1.075
2.26	2.27	251	117	0.16	0.022673	17.44	1.467	0.341	1.808	1.967	1.075
2.29	2.30	252	116	0.16	0.022965	17.45	1.472	0.344	1.816	1.972	1.080
2.31	2.32	253	116	0.16	0.023176	17.45	1.478	0.344	1.822	1.978	1.083
2.34	2.35	254	117	0.16	0.023467	17.46	1.483	0.341	1.824	1.983	1.083
2.36	2.37	254	116	0.16	0.023678	17.46	1.483	0.344	1.827	1.983	1.085
2.38	2.39	255	116	0.16	0.023899	17.46	1.488	0.344	1.832	1.988	1.088
2.41	2.43	255	116	0.16	0.024261	17.47	1.488	0.344	1.832	1.988	1.088
2.44	2.45	256	116	0.16	0.024472	17.47	1.493	0.344	1.837	1.993	1.091
2.46	2.47	257	116	0.16	0.024693	17.48	1.499	0.344	1.843	1.999	1.093
2.48	2.49	258	116	0.16	0.024904	17.48	1.504	0.344	1.848	2.004	1.096
2.51	2.52	258	116	0.16	0.025196	17.49	1.504	0.344	1.848	2.004	1.096
2.53	2.54	259	116	0.15	0.025417	17.49	1.509	0.347	1.856	2.009	1.101
2.55	2.56	260	116	0.16	0.025628	17.49	1.515	0.344	1.859	2.015	1.101
2.58	2.59	260	116	0.15	0.025920	17.50	1.514	0.347	1.861	2.014	1.104
2.60	2.61	261	116	0.15	0.026141	17.50	1.520	0.347	1.867	2.020	1.107
2.62	2.64	261	116	0.15	0.026352	17.51	1.520	0.347	1.866	2.020	1.107
2.64	2.66	262	116	0.15	0.026573	17.51	1.525	0.347	1.872	2.025	1.109
2.67	2.69	262	116	0.15	0.026854	17.52	1.525	0.350	1.874	2.025	1.112
2.69	2.71	262	116	0.15	0.027075	17.52	1.524	0.347	1.871	2.024	1.109
2.72	2.73	263	116	0.15	0.027286	17.52	1.530	0.350	1.879	2.030	1.114
2.74	2.75	264	116	0.15	0.027507	17.53	1.535	0.350	1.885	2.035	1.117
2.77	2.78	265	115	0.15	0.027799	17.53	1.541	0.350	1.890	2.041	1.120
2.79	2.80	265	115	0.15	0.028010	17.54	1.540	0.352	1.893	2.040	1.122
2.81	2.82	266	116	0.15	0.028231	17.54	1.546	0.352	1.898	2.046	1.125
2.84	2.85	268	116	0.15	0.028523	17.55	1.557	0.352	1.909	2.057	1.131
2.86	2.87	268	116	0.15	0.028734	17.55	1.557	0.352	1.909	2.057	1.131

	Deform.	Celda	Presión	Incremento		Åres	Infuerro	13	a'1	- 11	Erfuerzo
Deformación	Unitaria	Carga	de poros	deporos	Deform.	Corregida	Derviedor	Bectivo	Efectivo	Total	Promedio
(mm)	*	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kg(/cm²)	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
2.88	2.90	269	116	0.15	0.028955	17.55	1.562	0.352	1.914	2.062	1.133
2.90	2.92	270	116	0.15	0.029166	17.56	1.568	0.352	1.920	2.068	1.136
2.92	2.94	271	115	0.14	0.029387	17.56	1.573	0.355	1.928	2.073	1.142
2.95	2.97	272	115	0.14	0.029678	17.57	1.578	0.355	1.933	2.078	1.144
2.97	2.99	273	115	0.14	0.029889	17.57	1.584	0.355	1.939	2.084	1.147
3.00	3.01	274	115	0.14	0.030110	17.58	1.589	0.355	1.944	2.089	1.150
3.02	3.03	275	115	0.14	0.030822	17.58	1.595	0.355	1.950	2.095	1.152
3.04	3.05	275	115	0.14	0.030543	17.58	1.594	0.358	1.952	2.094	1.155
3.07	3.08	276	115	0.14	0.030824	17.59	1.600	0.358	1.957	2.100	1.158
3.09	3:10	277	115	0.14	0.031045	17.59	1.605	0.358	1.963	2.105	1,160
3.11	3.13	277	115	0.14	0.031266	17.60	1.605	0.358	1.963	2.105	1.160
3.13	3.15	278	115	0.14	0.031477	17.60	1.610	0.361	1.971	2.110	1,166
3.16	3:18	278	115	0.14	0.031769	17.61	1.610	0.363	1.973	2.110	1.168
3.18	3.20	280	115	0.14	0.031980	17.61	1.621	0.361	1.982	2.121	1.171
3.20	3.22	280	115	0.14	0.032201	17.61	1.620	0.363	1.984	2.120	1.174
3.23	3.25	280	115	0.14	0.032492	17.62	1.620	0.363	1 983	2,120	1.173
3.25	3.27	281	115	0.14	0.032703	17.62	1.625	0.363	1.989	2.125	1.176
3.28	3.29	282	115	0.14	0.032925	17.63	1.631	0.363	1.994	2.131	1,179
3.30	3.31	283	114	0.13	0.033136	17.63	1.636	0.366	2.002	2.136	1.184
3.33	3.34	283	114	0.13	0.033427	17.64	1.636	0.366	2.002	2.136	1.184
3.36	3.37	284	114	0.13	0.033718	17.64	1.641	0.365	2.007	2.141	1.187
3.38	3.39	284	114	0.13	0.033930	17.64	1.641	0.369	2.010	2.141	1.189
3.41	3.42	285	114	0.13	0.034221	17.65	1.646	0.369	2.015	2.146	1,192
3.43	3.45	285	114	0.13	0.034512	17.66	1.645	0.369	2.014	2.145	1,192
3.46	3,48	286	114	0.13	0.034804	17.66	1.651	0.369	2.020	2.151	1.194
3.48	3.50	286	114	0.13	0.035015	17.66	1.650	0.372	2.022	2.150	1,197
3.51	3.53	286	114	0.13	0.035306	17.67	1.650	0.372	2.022	2.150	1.197
3.54	3.56	286	114	0.13	0.035598	17.68	1.649	0.372	2.021	2.149	1,196
3.57	3.59	287	113	0.13	0.035879	17.68	1.655	0.375	2.029	2.155	1.202
3.59	3.61	287	113	0.13	0.036100	17.68	1.654	0.375	2.029	2.154	1.202
3.62	3.64	288	113	0.12	0.036392	17.69	1,660	0.377	2.037	2.160	1.207
3.65	3.67	288	113	0.13	0.036673	17.70	1.659	0.375	2.034	2.159	1.204
3.68	3.70	288	113	0.12	0.036965	17.70	1.659	0.377	2.036	2 159	1 207
3.70	3.72	289	113	0.12	0.037186	17.70	1.664	0.380	2.044	2.164	1,212
3.72	3.74	289	113	0.12	0.037397	17.71	1.664	0.380	2.044	2.164	1,212
3.75	3.77	289	113	0.12	0.037688	17.71	1.663	0.380	2.043	2.163	1,212
3.78	3,80	289	113	0.12	0.037980	17.72	1.663	0.380	2.043	2.163	1,211
3.81	3.83	290	113	0.12	0.038261	17.72	1.668	0.380	2.048	2.168	1.214
3.83	3.85	290	113	0.12	0.038482	17.73	1.667	0.380	2.048	2.167	1.214
3.86	3.88	291	113	0.12	0.038774	17.73	1.673	0.383	2.056	2.173	1.219
3.89	3.91	290	113	0.12	0.039055	17.74	1,666	0.383	2.049	2.166	1,216
3.91	3.93	290	112	0.11	0.039276	17.74	1.666	0.386	2.052	2.166	1,219
3.94	3.96	290	112	0.11	0.039568	17.75	1,666	0.386	2.051	2.166	1,219
3.97	3.98	291	112	0.11	0.039849	17.75	1.671	0.386	2.057	2.171	1.221
3.99	4.01	291	112	0.11	0.040141	17.76	1.670	0.389	2.059	2.170	1.224
4.02	4.04	292	112	0.11	0.040432	17.76	1,676	0.389	2.064	2,176	1,226
4.04	4.06	292	112	0.11	0.040643	17.77	1.675	0.389	2.064	2.175	1.226
4.07	4.09	293	112	0.11	0.040935	17.77	1.680	0.389	2.069	2.180	1.229
4,10	4,12	292	112	0.11	0.041156	17.78	1.674	0,391	2,065	2,174	1,228
4.12	4.14	293	112	0.11	0.041437	17.78	1.680	0.391	2.071	2.180	1.231
4.15	4,17	293	112	0.11	0.041729	17.79	1,679	0.391	2.070	2,179	1,231
4.18	4.20	293	111	0.11	0.042020	17.79	1.679	0.394	2.073	2.179	1.233

	Deform.	Celda	Presión	Incremento		Area	Infuerco	a'3	a'1	==1	Lifuerzo
Deformación (mm)	Unitaria %	Carga N	de poros (kPa)	deporos (kgl/cm²)	Deform. Unitaria	Corregida (cm²)	Dervindor (kgt/cm <sup>*</sup> )	Efectivo (kgl/cm²)	Efectivo (kgt/cm <sup>2</sup> )	Total (kgf/cm²)	Promedio (kgt/cm <sup>2</sup> )
4.20	4.22	293	111	0.11	0.042231	17.80	1.678	0.394	2.072	2.178	1,233
4.23	4.25	293	111	0.11	0.042522	17.80	1.678	0.394	2.072	2.178	1.233
4.25	4.27	293	111	0.11	0.042744	17.81	1.677	0.394	2.071	2.177	1,233
4.28	4.30	292	111	0.10	0.043025	17.81	1.671	0.397	2.068	2.171	1.232
4.31	4.33	292	111	0.10	0.043316	17.82	1.671	0.397	2.067	2.171	1,232
4.33	4.35	292	111	0.10	0.043538	17.82	1.670	0.397	2.067	2.170	1.232
4.36	4.38	293	111	0.10	0.043819	17.83	1.675	0.400	2.075	2.175	1.237
4.38	4.40	293	111	0.10	0.044040	17.83	1.675	0,400	2.075	2.175	1.237
4.41	4.43	293	111	0.10	0.044332	17.84	1.674	0,400	2.074	2.174	1.237
4.43	4.45	294	111	0.10	0.044543	17.84	1.680	0.402	2.082	2,180	1.242
4.46	4.48	295	111	0.10	0.044834	17.85	1.685	0.402	2.087	2.185	1.245
4.48	4.50	294	111	0.10	0.045045	17.85	1.679	0.402	2.081	2.179	1.242
4.45	4,48	295	111	0.10	0.044764	17.85	1.685	0,402	2.088	2.185	1.245
4.53	4.56	295	110	0.09	0.045558	17.86	1.684	0.405	2.089	2.184	1.247
4,56	4.58	295	110	0.09	0.045839	17.87	1.683	0.405	2.088	2,183	1.247
4.58	4.61	296	110	0.09	0.046060	17.87	1.689	0.405	2.094	2.189	1.250
4.61	4.63	296	110	0.09	0.046281	17.87	1.688	0.408	2.095	2.188	1.252
4.63	4.66	296	110	0.09	0.046563	17.88	1.688	0,408	2.095	2.188	1.252
4.65	4.67	296	110	0.09	0.046713	17.88	1.687	0.408	2.095	2.187	1.252
4.68	4.70	296	110	0.09	0.046995	17.89	1.687	0.408	2.095	2.187	1.251
4.71	4.73	297	110	0.09	0.047286	17.89	1.692	0.411	2.103	2.192	1.257
4.73	4.75	297	110	0.09	0.047507	17.90	1.692	0.411	2.103	2.192	1.257
4.76	4.78	297	110	0.09	0.047789	17.90	1.691	0,411	2,102	2.191	1.256
4.78	4.80	297	110	0.09	0.048010	17.91	1.691	0.411	2.102	2.191	1.256
4.75	4.77	297	110	0.09	0.047718	17.90	1.691	0.411	2.102	2.191	1.256
4.82	4.84	298	110	0.09	0.048442	17.91	1.696	0.414	2.109	2.196	1.261
4.85	4.87	298	109	0.08	0.048734	17.92	1.695	0.416	2.112	2.195	1.264
4.87	4,89	298	109	0.08	0.048945	17.92	1.695	0,416	2.111	2.195	1.264
4.90	4.92	298	109	0.08	0.049236	17.93	1.694	0.416	2.111	2.194	1.264
4.92	4.95	299	109	0.08	0.049457	17.93	1.700	0.416	2.116	2.200	1.266
4.95	4.97	299	109	0.08	0.049739	17.94	1.699	0.416	2.115	2.199	1.266
4.97	5.00	299	109	0.08	0.049960	17.94	1.699	0.419	2.118	2.199	1.269
5.00	5.03	300	109	0.08	0.050251	17.95	1.704	0.419	2.123	2.204	1.271
5.02	5.05	300	109	0.08	0.050462	17.95	1.703	0.422	2.125	2.203	1.274
5.05	5.08	300	109	0.08	0.050754	17.96	1.703	0.419	2.122	2.203	1.271
5.07	5.10	300	109	0.08	0.050965	17.96	1.703	0.422	2.125	2.203	1.273
5.04	5.07	300	109	0.08	0.050683	17.96	1.703	0.419	2.122	2.203	1.271
5.12	5,15	300	109	0.08	0.051477	17.97	1.702	0.422	2.124	2.202	1.273
5.14	5.17	300	108	0.08	0.051688	17.98	1.701	0.425	2.126	2.201	1.275
5.17	5.20	302	108	0.08	0.051980	17.98	1.712	0.425	2.137	2.212	1.281
5.19	5.22	302	108	0.07	0.052201	17.99	1.712	0.428	2.139	2.212	1.283
5.22	5.25	303	108	0.08	0.052482	17.99	1.717	0.425	2.142	2.217	1.283
5.25	5.28	304	108	0.07	0.052774	18.00	1.722	0.428	2.150	2.222	1.289
5.27	5.30	304	108	0.07	0.052995	18.00	1.722	0.428	2.149	2.222	1.288
5.29	5.32	305	108	0.07	0.053206	18.00	1.727	0.430	2.157	2.227	1.294
5.32	5.35	306	108	0.07	0.053497	18.01	1.732	0.430	2.162	2.232	1.296
5.34	5.37	307	108	0.07	0.053708	18.01	1.737	0.430	2.168	2.237	1.299
5.37	5.39	308	108	0.07	0.053929	18.02	1.743	0.430	2.173	2.243	1.302
5.35	5.38	308	108	0.07	0.053789	18.02	1.743	0.430	2.173	2.243	1.302
5.42	5.44	309	108	0.07	0.054432	18.03	1.747	0.433	2.180	2.247	1.307
5.45	5.47	310	108	0.07	0.054723	18.03	1.752	0.433	2.185	2.252	1.309
5.47	5.50	310	108	0.07	0.055015	18.04	1.752	0.433	2.185	2.252	1.309

	Deferm	Calda	Presiden	Incremento		Åren	Estuence	13	- 61	:1	Erfuerzo
Deformación	Unitaria	Carga	de poros	deportos	Deform.	Correction	Dervindor	Efectivo	Efectivo	Total	Promedio
(mm)	8	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(logi/cm <sup>2</sup> )	(last/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
5.50	5.52	311	107	0.06	0.055226	18.04	1,757	0.436	2.193	2.257	1.314
5.52	5.55	312	107	0.06	0.055517	18.05	1.762	0.436	2.198	2.262	1.317
5.55	5.57	313	107	0.06	0.055739	18.05	1.767	0.436	2 203	2.267	1.320
5.57	5.60	314	107	0.06	0.056020	18.06	1.773	0,436	2.208	2.273	1.322
5.60	5.62	314	107	0.06	0.056241	18.06	1.772	0.439	2 2 1 1	2.272	1.925
5.63	5.65	315	107	0.06	0.056532	18.07	1.777	0.439	2,216	2.277	1.327
5.65	5.67	316	107	0.06	0.056744	18.07	1.782	0.439	2.221	2.282	1.330
5.68	5.70	317	107	0.06	0.057035	18.08	1,788	0.439	2,226	2.288	1.332
5.70	5.73	317	107	0.06	0.057326	18.08	1.787	0.441	2.228	2.287	1.335
5.73	5.75	317	107	0.06	0.057537	18.09	1,787	0.441	2.228	2.287	1.335
5.75	5.78	318	107	0.06	0.057759	18.09	1.792	0.441	2,233	2.292	1.337
5.78	5.80	318	107	0.06	0.058040	18.10	1.791	0.441	2.233	2.291	1.337
5.80	5.83	319	107	0.06	0.058331	18.10	1,796	0.441	2,238	2.296	1.340
5.83	5.86	319	105	0.06	0.058553	18.11	1.796	0.444	2.240	2.296	1.342
5.85	5.88	319	105	0.06	0.058834	18.11	1,795	0.444	2.240	2,295	1.342
5.88	5.91	320	105	0.06	0.059125	18.12	1.800	0.444	2.245	2.300	1.344
5.91	5.93	321	105	0.05	0.059347	18.12	1.806	0.447	2.253	2.306	1.350
5.93	5.96	321	105	0.05	0.059628	18.13	1.805	0.447	2,252	2,305	1.350
5.96	5.98	322	105	0.05	0.059849	18.13	1.810	0.447	2.257	2.310	1.352
5.98	6.01	322	106	0.05	0.060141	18.14	1.810	0.447	2.257	2.310	1.352
6.01	6.04	323	105	0.05	0.060352	18.14	1.815	0.447	2,262	2,315	1.355
6.03	6.06	323	106	0.05	0.060643	18.15	1.814	0.450	2.264	2.314	1.357
6.06	6.09	324	105	0.05	0.060934	18.15	1.819	0.450	2,269	2.319	1.360
6.08	6.11	323	105	0.05	0.061146	18.15	1.813	0.450	2.263	2.313	1.357
6.11	6.14	325	106	0.05	0.061437	18.16	1.824	0,450	2.274	2.324	1.362
6.14	6.17	325	105	0.05	0.061728	18.17	1.824	0.453	2.276	2.324	1.364
6.16	6.19	325	106	0.05	0.061939	18.17	1.823	0.453	2.276	2.323	1.364
6.19	6.22	326	105	0.05	0.062161	18.18	1.828	0.453	2,281	2.328	1.367
6.21	6.25	326	105	0.04	0.062452	18.18	1.828	0.455	2.283	2.328	1.369
6.24	6.27	326	105	0.04	0.062663	18.19	1.827	0.455	2.283	2.327	1.369
6.26	6.30	326	105	0.04	0.062955	18.19	1.827	0.455	2,282	2.327	1.369
6.29	6.32	326	105	0.04	0.063166	18.20	1.826	0.458	2.285	2.326	1.371
6.31	6.35	326	105	0.04	0.063457	18.20	1.826	0.458	2.284	2.326	1.371
6.34	6.37	327	105	0.04	0.063749	18.21	1.831	0.458	2,289	2.331	1.374
6.36	6.40	327	105	0.04	0.063960	18.21	1.830	0.458	2.289	2.330	1.373
6.39	6.43	327	105	0.04	0.064251	18.22	1.830	0.458	2,288	2.330	1.373
6.42	6.45	328	105	0.04	0.064472	18.22	1.835	0.461	2.296	2.335	1.378
6.44	6.47	328	105	0.04	0.064683	18.23	1.835	0.461	2,296	2.335	1.378
6.47	6.50	328	105	0.04	0.064975	18.23	1.834	0.464	2.298	2.334	1.381
6.49	6.53	327	105	0.04	0.065266	18.24	1.828	0.464	2.292	2.328	1.378
6.52	6.55	327	105	0.04	0.065477	18.24	1.827	0.464	2,291	2.327	1.377
6.54	6.57	327	105	0.04	0.065698	18.24	1.827	0.464	2,291	2.327	1.377
6.57	6,60	326	104	0.03	0.065990	18.25	1.821	0,467	2,287	2,321	1.377
6.59	6.63	326	105	0.04	0.066271	18.26	1.820	0.464	2.284	2.320	1.374
6.62	6.65	326	104	0.03	0.066492	18.26	1.820	0.467	2.286	2.320	1.376
6.65	6.68	326	104	0.03	0.066784	18.27	1.819	0.467	2.286	2.319	1.376
6.67	6.70	326	104	0.03	0.066995	18.27	1.819	0.469	2.288	2.319	1.379
6.70	6.73	326	104	0.03	0.067286	18.28	1.818	0.469	2.288	2.318	1.378
6.72	6.75	326	104	0.03	0.067497	18.28	1.818	0.469	2.287	2.318	1.378
6.75	6.78	326	104	0.03	0.067789	18.29	1.817	0.469	2.287	2.317	1.378
6.77	6.80	326	104	0.03	0.068010	18.29	1.817	0.469	2.286	2.317	1.378
6.79	6.82	327	104	0.03	0.068221	18.29	1.822	0.472	2.294	2.322	1.383

	Deform.	Celda	Presiden	Incremento		Åres	Enforme	13	11	=1	Erfuerzo
Deformación	Unitaria	Cargo	de poros	deportos	Deform.	Correction	Derviedor	Electivo	Bectivo	Total	Promedio
(mm)		N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )
6.82	6.85	326	104	0.03	0.068512	18.90	1.816	0.472	2.288	2 316	1380
6.84	6.87	326	104	0.03	0.068723	18 90	1.816	0.472	2 288	2 316	1380
6.87	6.90	326	104	0.03	0.069015	18.31	1.815	0.472	2 287	2 315	1 380
6.89	6.92	326	103	0.03	0.069236	18 31	1.815	0.475	2 289	2 915	1382
6.65	2.62	552	400	0.03	0.0000017	40.05	1014	0.475	3 500	3.54.6	4 5 6 5
0.92	6.93	325	103	0.03	0.0693317	10.32	1.014	0.475	2.202	2.314	1.302
6.97	7.00	326	103	0.03	0.020030	18.33	1,813	0.475	2 288	2 313	1 981
6.00	7.00	334	102	0.03	0.070045	10.00	1.010	0.479	3 300	3 949	1 3 9 4
2.05	7.02	325	103	0.02	0.070241	10.33	1.013	0.479	2.290	2.313	1.304
7.04	7.00	320	400	0.02	0.070902	10.34	1.012	0.470	0.000	2.312	1.304
7.04	7.00	345	103	0.02	0.070054	10.39	1.012	0.470	2.202	2.312	1,303
7.00	7.10	310	100	0.02	0.071965	10.35	1.011	0.400	2.232	2.311	1.300
7.00	7.13	320	105	0.02	0.071236	10.35	1.011	0.470	2.200	2.311	1.303
7.11	7.15	325	105	0.02	0.071467	18.35	1.810	0.480	2.291	2.310	1.385
7.13	7.17	325	105	0.02	0.0/1688	18.35	1.810	0.480	2.290	2.310	1.385
7.16	7.20	326	103	0.02	0.071980	18.37	1.809	0.483	2.292	2.309	1.388
7.18	7.22	326	103	0.02	0.072191	18.37	1.809	0.483	2.292	2.309	1.388
7.21	7.25	326	103	0.02	0.072482	18.38	1.808	0.483	2.291	2.308	1.387
7.23	7.27	326	103	0.02	0.072703	18.38	1.808	0.483	2.291	2.308	1.387
7.26	7.30	326	103	0.02	0.072985	18.39	1.807	0.483	2.290	2.307	1.387
7.28	7.32	326	102	0.01	0.073206	18.39	1.807	0.486	2.293	2.307	1.389
7.31	7.35	326	102	0.01	0.073497	18.40	1.806	0.486	2.292	2.306	1.389
7.33	7.37	327	102	0.01	0.073708	18.40	1.811	0.486	2.297	2.311	1.392
7.36	7.39	326	102	0.01	0.073929	18.41	1.805	0.486	2.291	2.305	1.389
7.38	7.42	327	102	0.01	0.074211	18.41	1.810	0.486	2.296	2.310	1.391
7.41	7.45	327	102	0.01	0.074502	18.42	1.810	0.489	2.299	2.310	1.394
7.44	7.47	327	102	0.01	0.074723	18.42	1.809	0.489	2.298	2.309	1.394
7.46	7.49	328	102	0.01	0.074934	18.43	1.814	0.492	2.306	2.314	1.399
7.49	7.52	327	102	0.01	0.075226	18.43	1.808	0.489	2.297	2.308	1.393
7.51	7.54	328	102	0.01	0.075437	18.44	1.813	0.492	2.305	2.313	1.398
7.54	7.57	328	102	0.01	0.075728	18.44	1.813	0.492	2.305	2.313	1.398
7.56	7.59	328	102	0.01	0.075949	18.45	1.812	0.492	2.304	2.312	1.398
7.59	7.62	328	102	0.01	0.076231	18.45	1.812	0.492	2.304	2.312	1.398
7.61	7.65	328	101	0.01	0.076452	18.46	1.811	0.494	2.306	2.311	1.400
7.64	7.67	328	101	0.01	0.076743	18.46	1.811	0.494	2.305	2.311	1.400
7.66	7.70	328	101	0.01	0.076955	18.47	1.810	0.494	2.305	2.310	1.400
7.68	7.72	328	101	0.00	0.077176	18.47	1.810	0.497	2.307	2.310	1.402
7.71	7.75	329	101	0.00	0.077467	18.48	1.815	0.497	2.312	2.315	1.405
7.73	7.77	328	101	0.00	0.077678	18.48	1.809	0.497	2.306	2,309	1.402
7.75	7.79	328	101	0.00	0.077899	18.49	1.809	0.497	2.306	2,309	1.402
7.77	7.81	328	101	0.00	0.078110	18.49	1.808	0.497	2.305	2.308	1.401
7.80	7.84	328	101	0.00	0.078402	18.50	1.808	0.497	2,305	2 308	1.401
7.82	7.86	328	101	0.00	0.078623	18.50	1.807	0.500	2.307	2 307	1404
7.84	7.88	328	101	0.00	0.078834	18.51	1.807	0.500	2 307	2 907	1403
7.87	7.91	329	101	0.00	0.079125	18.51	1.812	0.500	2 312	2 312	1405
7,89	7.93	329	101	0.00	0.079336	18.52	1.811	0.500	2,311	2.311	1.406
7.92	7.64	830	101	0.00	0.079559	18 63	1.814	0.503	2 210	2 914	1.411
7.65	7.49	330	101	0.00	0.079849	18 53	1,816	0.503	2 9 1 9	2 916	1,411
7.97	8.01	330	101	0.00	0.080050	18 53	1.815	0.503	2 318	2 915	1,410
7.00	9.00	224	101	0.00	0.080384	19 53	1,830	0,500	3,939	3 230	1,410
1.33	0.03	331	101	0.00	0.080482	19.53	1,820	0.505	2,323	2.320	1,413
0.01	6.05	332	101	0.00	0.000492	10.79	1.020	0.000	2.320	2,320	1,410
0.04	0.00	232	100	-0.01	0.000764	10.55	1.023	0.000	2,331	2.323	1,410
0.00	0.10	332		-0.01	omethics.	10.33	1.043	0.305	6.330	6.363	1.410

	Delarm	Califa	<b>Presiden</b>	Incremento		Åres	Latuento	a 13	11	=1	Erfuerzo
Deformación	Unitaria	Cargo	de poros	deportos	Deform.	Correction	Dervindor	Efectivo	Electivo	Total	Promedio
(mm)	56	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(log!/cm <sup>2</sup> )
8.08	8.12	332	100	-0.01	0.081216	18.55	1.824	0.506	2.330	2.324	1.418
8.10	8.14	332	100	-0.01	0.081437	18.56	1.824	0.508	2.332	2.324	1.420
8.13	8.17	332	100	-0.01	0.081718	18.56	1.823	0.506	2.329	2 323	1.417
8.15	8.19	333	100	-0.01	0.081939	18.57	1.828	0.508	2.337	2.328	1.422
8.18	8.22	333	100	-0.01	0.082231	18.57	1.828	0.508	2 3 3 6	2 328	1.422
8.20	8.24	334	100	-0.01	0.082442	18.58	1.833	0.508	2.341	2.333	1.425
8.23	8.27	335	100	-0.01	0.082663	18.58	1.838	0.508	2.346	2.338	1.427
8.25	8.29	336	100	-0.01	0.082874	18.59	1.843	0.508	2 351	2.943	1.430
8,28	8.32	337	100	-0.01	0.083166	18.59	1.848	0.511	2.359	2,348	1.435
8,30	8.34	337	100	-0.01	0.083387	18.60	1.847	0.511	2.358	2.347	1.435
8.32	8.36	338	100	-0.01	0.083598	18.60	1.852	0.511	2.363	2,352	1,437
8.34	8.38	339	100	-0.01	0.083819	18.61	1.857	0.511	2.368	2.357	1.440
8.37	8.41	339	100	-0.01	0.084100	18.61	1.857	0.511	2.368	2.357	1,440
8.39	8.43	339	99	-0.01	0.084321	18.62	1.856	0.514	2.370	2,356	1.442
8.42	8.46	339	99	-0.01	0.084613	18.62	1.856	0.514	2 370	2,356	1.442
8.45	8.49	339	99	-0.01	0.084894	18.63	1.855	0.514	2.369	2,355	1.441
8.47	8.51	339	99	-0.01	0.085115	18.63	1.855	0.514	2.369	2.355	1.441
8,50	8.54	339	99	-0.02	0.085407	18.64	1.854	0.517	2.371	2,354	1,444
8.53	8.57	339	99	-0.01	0.085688	18.64	1.854	0.514	2.367	2,354	1.441
8.56	8.60	338	99	-0.02	0.085980	18.65	1.847	0.517	2.364	2.347	1.440
8.58	8.63	337	99	-0.02	0.086271	18.66	1.841	0.517	2.358	2,341	1,437
8.61	8.66	337	99	-0.02	0.086563	18.66	1.841	0.517	2.358	2.341	1,437
8.63	8.68	337	99	-0.02	0.086774	18.67	1.840	0.517	2.357	2,340	1.437
8.66	8.71	337	99	-0.02	0.087065	18.67	1.840	0.517	2.357	2,340	1,437
8.68	8.73	337	99	-0.02	0.087276	18.68	1.839	0.517	2.356	2.339	1,436
8.71	8.76	338	99	-0.02	0.087568	18.68	1.844	0.517	2.361	2.344	1,439
8.74	8.79	337	99	-0.02	0.087859	18.69	1.838	0.520	2.358	2.338	1.439
8,77	8.82	337	99	-0.02	0.088150	18.69	1.838	0.520	2.357	2,338	1.438
8,79	8.84	337	99	-0.02	0.088362	18,70	1.837	0.520	2.357	2.337	1,438
8.82	8.87	337	99	-0.02	0.088653	18.70	1.837	0.520	2.356	2.337	1,438
8.85	8.89	338	99	-0.02	0.088944	18,71	1.841	0.520	2.361	2.341	1.440
8.87	8.92	337	99	-0.02	0.089155	18.71	1.836	0.520	2.355	2.336	1.437
8.90	8.94	338	99	-0.02	0.089447	18.72	1.840	0.520	2,360	2.340	1,440
8,94	8.98	338	99	-0.02	0.089809	18,73	1.840	0.522	2.362	2,340	1.442
8.96	9.00	338	99	-0.02	0.090020	18.73	1.839	0.522	2.362	2.339	1.442
8.99	9.03	339	99	-0.02	0.090311	18,74	1.844	0.522	2.366	2.344	1.444
9.02	9.06	339	99	-0.02	0.090603	18.74	1.844	0.522	2.366	2.344	1.444
9.04	9.08	340	98	-0.03	0.090814	18.75	1.849	0.525	2.374	2,349	1.449
9.07	9.11	340	98	-0.03	0.091105	18.75	1.848	0.525	2.373	2.348	1.449
9.09	9.14	340	98	-0.03	0.091397	18.76	1.847	0.525	2.372	2.347	1.449
9.12	9.17	340	98	-0.03	0.091688	18.77	1.847	0.525	2.372	2.347	1,448
9.14	9.19	340	98	-0.03	0.091899	18.77	1.846	0.525	2.371	2.346	1.448
9.17	9.22	341	98	-0.03	0.092191	18,78	1.851	0.525	2.376	2,351	1.451
9.19	9.24	341	98	-0.03	0.092402	18.78	1.851	0.528	2.379	2.351	1.453
9.22	9.27	341	98	-0.03	0.092693	18.79	1.850	0.528	2.378	2.350	1.453
9.25	9.29	341	98	-0.03	0.092914	18.79	1.850	0.528	2.378	2.350	1.453
9.27	9.32	341	98	-0.03	0.093196	18.80	1.849	0.528	2.377	2.349	1.452
9.31	9.36	342	98	-0.03	0.093557	18.81	1.854	0.531	2.384	2.354	1.458
9.34	9.38	344	98	-0.03	0.093849	18.81	1.864	0.531	2.395	2.364	1.463
9.37	9.41	345	98	-0.03	0.094140	18.82	1.869	0.531	2.400	2.369	1.465
9.40	9.44	345	98	-0.03	0.094432	18.82	1.868	0.531	2.399	2.368	1.465
9.42	9.46	344	98	-0.03	0.094643	18.83	1.862	0.531	2.393	2.362	1.462

	Deform.	Celda	Presión	Incremento		Area	Estuenco	13	- 11	:1	Enfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Dervindor	Efectivo	Efectivo	Total	Promedio
(mm)		N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(log//cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
9,44	9,49	345	98	-0.03	0.094864	18.83	1.867	0.533	2.401	2.367	1.467
9.46	9.51	344	98	-0.03	0.095075	18.84	1.862	0.533	2.395	2.362	1.464
9,49	9.54	344	98	-0.03	0.095367	18.84	1.861	0.533	2.394	2.361	1.464
9.51	9.56	344	98	-0.03	0.095578	18.85	1.861	0.533	2.394	2.361	1.464
9,53	9,58	344	98	-0.03	0.095799	18.85	1.860	0.533	2.393	2,360	1.463
9,56	9.61	344	97	-0.04	0.096090	18.86	1.859	0.536	2.395	2,359	1.466
9.58	9.63	343	97	-0.04	0.096301	18.86	1.854	0.536	2.390	2.354	1.463
9.60	9.65	343	97	-0.04	0.096452	18.87	1.853	0.536	2.390	2,353	1.463
9.63	9.67	343	97	-0.04	0.096733	18.87	1.853	0.536	2.389	2,353	1.463
9.65	9.70	343	97	-0.04	0.097025	18.88	1.852	0.536	2,388	2,352	1.462
9,68	9.72	343	97	-0.04	0.097246	18.88	1.852	0.536	2.388	2,352	1.462
9.70	9.75	344	97	-0.04	0.097527	18.89	1.856	0.539	2.396	2.356	1.467
9.73	9.78	345	97	-0.04	0.097819	18.89	1.861	0.539	2,400	2.361	1.470
9.76	9,80	345	97	-0.04	0.098040	18.90	1.861	0.539	2,400	2.361	1.469
9.78	9,83	344	97	-0.04	0.098321	18.91	1.855	0.539	2,394	2,355	1.466
9.81	9,85	344	97	-0.04	0.098542	18.91	1.854	0.542	2,396	2,354	1.469
9.83	9,88	344	97	-0.04	0.098763	18.91	1.854	0.542	2,396	2.354	1.469
9,85	9.90	344	97	-0.04	0.098975	18.92	1.854	0.542	2,995	2 354	1.469
9.87	9.92	344	97	-0.04	0.099196	18.92	1.853	0.542	2,395	2,353	1.468
9,90	9.95	344	97	-0.04	0.099477	18.93	1.852	0.542	2.394	2,352	1.468
9.92	9.97	343	96	-0.04	0.099698	18.93	1.847	0.545	2,991	2.347	1.468
9,94	9,99	343	96	-0.04	0.099909	18.94	1.846	0.545	2.391	2.346	1.468
9.97	10.02	343	96	-0.04	0 100201	18.94	1.846	0.545	2 990	2 346	1.467
9,99	10.04	343	96	-0.04	0.100422	18.95	1.845	0.545	2,390	2.345	1.467
10.02	10.07	343	96	-0.04	0.100703	18.96	1.845	0.545	2.389	2.345	1.467
10.04	10.09	343	96	-0.05	0.100924	18.96	1.844	0.547	2,992	2 344	1.469
10.07	10.12	343	96	-0.04	0.101216	18.97	1.844	0.545	2 388	2 344	1.466
10.09	10.14	244	96	-0.05	0 101427	18.97	1 848	0.547	2 396	2 948	1.472
10.12	10.17	344	96	-0.05	0.101718	18.98	1.848	0.547	2,395	2.348	1.471
10.14	10.19	344	96	-0.05	0.101939	18.98	1.847	0.547	2,395	2.347	1.471
10.16	10.22	244	96	-0.05	0 102150	18.99	1.847	0.547	2 394	2 947	1.471
10.19	10.24	344	96	-0.05	0.102442	18.99	1.846	0.550	2,397	2.346	1.473
10.21	10.27	848	96	-0.05	0 102653	19.00	1.841	0.550	2 391	2 941	1.470
10.24	10.29	343	96	-0.05	0.102944	19.00	1.840	0.550	2,390	2,340	1,470
10.26	10.31	344	96	-0.05	0.103095	19.01	1.845	0.550	2,395	2.345	1.473
10.29	10.34	344	96	-0.05	0.103377	19.01	1.844	0.550	2 995	2 344	1.472
10.31	10.36	344	96	-0.05	0.103598	19.02	1.844	0.550	2.394	2.344	1,472
10.33	10.38	849	96	-0.05	0 103809	19.02	1.838	0.550	2 388	2 338	1.469
10.36	10.41	344	96	-0.05	0.104100	19.03	1.843	0.553	2,396	2.343	1.474
10.39	10.44	344	96	-0.05	0.104392	19.03	1.842	0.553	2.395	2.342	1.474
10.41	10.46	845	96	-0.05	0 104503	19.04	1.847	0.553	2.400	2 947	1.477
10.44	10.49	345	96	-0.05	0.104894	19.04	1.847	0.553	2,400	2.347	1.476
10.46	10.51	346	96	-0.05	0.105115	19.05	1.852	0.553	2.405	2 952	1.479
10.49	10.54	346	95	-0.05	0.105397	19.05	1.851	0.556	2.407	2 951	1.481
10.51	10.56	347	95	-0.06	0.105618	19.06	1.856	0.556	2,412	2,356	1.484
10.54	10.59	348	95	-0.06	0.105909	19.07	1,861	0.556	2,416	2,961	1,486
10.56	10.61	348	95	-0.06	0.106120	19.07	1.860	0.556	2.416	2.360	1.486
10.58	10.63	349	95	-0.06	0.106341	19.07	1.865	0.556	2.421	2.365	1.488
10.61	10.66	349	95	-0.06	0.106623	19.08	1,864	0.556	2,420	2,364	1,488
10.63	10.68	349	95	-0.06	0.106844	19.09	1.864	0.556	2.420	2.364	1.488
10.65	10.71	350	95	-0.06	0.107065	19.09	1,869	0.559	2.427	2,969	1.493
10.69	10.74	351	95	-0.06	0.107417	19.10	1.874	0.559	2.432	2.374	1.495

	Deform.	Celda	Presión	Incremento		Åren	Infuerzo	13	11	11	Erfuerzo
Deformación	Unitaria	Cargo	de poros	deportos	Deform.	Correction	Dervision	Electivo	Dectivo	Total	Promedio
(mm)	26	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
10.71	10.76	851	95	-0.05	0.107638	19.10	1.873	0.559	2432	2 373	1.495
10.74	10.79	352	95	-0.05	0.107929	19.11	1.878	0.559	2,436	2.378	1,497
10.76	10.81	352	95	-0.06	0.108140	19.11	1.877	0.559	2.436	2.377	1,497
10.79	10.84	352	95	-0.06	0.108432	19.12	1.877	0.561	2,438	2.377	1.500
10.81	10.87	353	95	-0.05	0.108653	19.12	1.882	0.559	2.440	2 382	1.499
10.84	10.89	354	95	-0.06	0.108934	19.13	1.886	0.559	2,445	2.386	1.502
10.87	10.92	355	95	-0.06	0.109226	19.14	1.891	0.561	2.452	2.391	1.507
10.89	10.94	355	95	-0.05	0 109447	19.14	1.891	0.561	2.452	2 991	1 507
10.91	10.97	356	95	-0.06	0.109658	19.15	1.895	0.561	2,457	2,395	1.509
10.95	11.00	356	94	-0.06	0.110020	19.15	1.895	0.564	2.459	2,395	1.511
10.97	11.02	357	94	-0.05	0.110241	19.16	1.900	0.564	2.464	2,400	1.514
10.99	11.05	357	94	-0.06	0.110452	19.16	1.899	0.564	2,463	2.399	1.514
11.02	11.07	357	94	-0.05	0.110743	19.17	1,898	0.564	2.463	2,398	1.513
11.05	11.10	357	94	-0.05	0.111035	19.18	1.898	0.564	2,462	2.398	1.513
11.07	11.12	358	94	-0.06	0.111246	19.18	1.903	0.564	2,467	2.403	1.515
11.10	11.15	358	94	-0.05	0.111537	19.19	1.902	0.564	2,466	2.402	1.515
11.12	11.17	359	94	-0.06	0.111748	19.19	1.907	0.564	2,471	2.407	1.518
11.15	11.20	359	94	-0.06	0.112040	19.20	1.906	0.564	2,470	2.406	1.517
11.17	11.23	359	94	-0.07	0.112261	19.20	1.906	0.567	2,473	2.406	1.520
11.20	11.25	359	94	-0.07	0.112542	19.21	1.905	0.567	2,472	2.405	1.519
11.23	11.28	360	94	-0.05	0.112834	19.21	1.910	0.564	2,474	2.410	1.519
11.26	11.31	360	94	-0.07	0.113125	19.22	1.909	0.567	2,476	2.409	1.522
11.28	11.33	361	94	-0.07	0.113336	19.23	1.914	0.567	2,481	2.414	1.524
11.31	11.36	360	94	-0.07	0.113628	19.23	1.908	0.567	2,475	2.408	1.521
11.33	11.38	360	94	-0.07	0.113849	19.24	1.908	0.567	2,475	2.408	1.521
11.35	11.41	360	94	-0.07	0.114060	19.24	1.907	0.567	2,474	2.407	1.521
11.38	11.44	360	94	-0.07	0.114351	19.25	1.907	0.567	2.474	2.407	1.520
11.40	11.46	361	94	-0.07	0.114572	19.25	1.911	0.567	2,478	2.411	1.523
11.43	11.49	362	94	-0.07	0.114854	19.26	1.916	0.570	2,486	2.416	1.528
11.45	11.51	363	94	-0.07	0.115075	19.26	1.921	0.570	2.491	2.421	1.530
11.48	11.54	363	94	-0.07	0.115366	19.27	1.920	0.570	2.490	2.420	1.530
11.50	11.56	364	94	-0.07	0.115578	19.27	1.925	0.570	2.495	2.425	1.532
11.53	11.59	364	94	-0.07	0.115869	19.28	1.925	0.570	2,494	2.425	1.532
11.55	11.61	365	94	-0.07	0.116080	19.28	1.929	0.570	2.499	2.429	1.534
11.58	11.64	365	94	-0.07	0.116371	19.29	1.929	0.570	2.498	2.429	1.534
11.61	11.67	364	94	-0.07	0.116663	19.30	1.923	0.570	2.492	2.423	1.531
11.63	11.69	364	94	-0.07	0.116874	19.30	1.922	0.570	2.492	2.422	1.531
11.66	11.72	364	94	-0.07	0.117165	19.31	1.922	0.570	2.491	2.422	1.531
11.68	11.74	364	94	-0.07	0.117387	19.31	1.921	0.572	2.494	2.421	1.533
11.71	11.77	364	94	-0.07	0.117658	19.32	1.921	0.572	2.493	2.421	1.533
11.73	11.79	363	94	-0.07	0.117889	19.32	1.915	0.572	2.487	2.415	1.530
11.76	11.82	363	94	-0.07	0.118181	19.33	1.914	0.572	2.487	2.414	1.530
11.78	11.84	363	94	-0.07	0.118392	19.34	1.914	0.572	2.486	2.414	1.529
11.81	11.87	363	94	-0.07	0.118683	19.34	1.913	0.572	2.486	2.413	1.529
11.83	11.89	363	94	-0.07	0.118904	19.35	1.913	0.572	2.485	2.413	1.529
11.86	11.92	363	93	-0.08	0.119186	19.35	1.912	0.575	2.487	2.412	1.531
11.88	11.94	363	93	-0.08	0.119407	19.36	1.912	0.575	2.487	2.412	1.531
11.91	11.97	362	93	-0.08	0.119698	19.36	1.906	0.575	2.481	2.406	1.528
11.93	11.99	362	93	-0.08	0.119909	19.37	1.905	0.575	2.480	2.405	1.528
11.96	12.02	362	93	-0.08	0.120201	19.38	1.905	0.575	2.480	2.405	1.528
11.99	12.05	362	93	-0.08	0.120492	19.38	1.904	0.575	2.479	2.404	1.527
12.02	12.08	363	93	-0.08	0.120773	19.39	1.909	0.575	2.484	2.409	1.530

	Deform.	Celda	Presión	incremento		Åren	Estuenco	a'3	11	=1	Enfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Dervindor	Electivo	Electivo	Total	Promedio
(mm)	56	N	(kPa)	(kg//cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(logt/cm <sup>2</sup> )
12.04	12:10	863	93	-0.08	0.120995	19.99	1 908	0.578	2.486	2.408	1 582
12.06	12.12	363	93	-0.08	0.121206	19.40	1.908	0.578	2,486	2.408	1,532
12.09	12.15	363	93	-0.08	0.121497	19.40	1 907	0.578	2.485	2,407	1 582
12.11	12.17	363	93	-0.08	0.121718	19.41	1 907	0.578	2.485	2.407	1 531
12.14	12.20	363	93	-0.08	0.122000	19.41	1.905	0.578	2.484	2,405	1 5 8 1
12.17	12.23	363	93	-0.08	0.122291	19.42	1 905	0.578	2.483	2.405	1 581
12.19	12.25	363	93	-0.08	0.122512	19.43	1.905	0.578	2.483	2.405	1,530
12.22	12.28	969	93	-0.08	0.122794	19.43	1.904	0.578	2.482	2.404	1580
12.24	12.30	363	93	-0.08	0.123015	19.44	1.904	0.578	2 482	2.404	1580
12.27	12.33	363	93	-0.08	0.123306	19.44	1.903	0.578	2.481	2,403	1 580
12.29	12.35	363	93	-0.08	0.123517	19.45	1 903	0.581	2.483	2 403	1 582
12.32	12.38	363	93	-0.08	0.123809	19.46	1 902	0 581	2.483	2 402	1 5 8 2
12.35	12.41	363	93	-0.08	0.124100	19.46	1.901	0.581	2.482	2.401	1 5 8 2
12.37	12.43	363	93	-0.08	0.124311	19.47	1 901	0.581	2.482	2 401	1 581
12.40	13.46	969	00	-0.08	0.104600	10.47	1,000	0.591	3.491	3,400	1 5 3 4
12,40	12,49	363	92	-0.08	0.124003	10.49	1,000	0.591	2,401	2,400	1 500
12.45	12.51	363	93	-0.08	0.125105	19.48	1,899	0.584	2.483	2 399	1 5 8 8
13.47	13.50	969	00	-0.08	0.105000	10.40	1 999	0.594	3.493	2 200	1 5 3 3
12.47	13.54	29.3	82	-0.08	0.120020	10.50	1.033	0.594	2,492	2,399	1 500
12.50	12 58	363	92	-0.09	0.125829	19.50	1,898	0.586	2.484	2 398	1 5 3 5
10 66	13.61	363	00	-0.09	0.136130	10.51	1.007	0.595	3,493	3 367	1 5 5 5
12.55	12.64	36.5	92	-0.09	0.126120	19.51	1.007	0.500	2,403	2,400	1.555
12.50	13.00	369	84 83	-0.00	0.110911	10.01	1.004	0.000	2,400	2,000	1 0 0 4
12.60	12.00	303	92	-0.09	0.120023	19.52	1.000	0.500	2,402	2.399	1.539
12.00	12,00	303	92	-0.09	0.120914	19.52	1.005	0.500	2,402	2,395	1.534
12.00	45.75	30.3	32	-0.05	0.127125	10.00	1.000	0.000	2,401	2.399	1.534
12.07	12.73	304	92	-0.09	0.127540	10.55	1.900	0.505	2,402	2,400	1.539
12.00	43.79	204	32	-0.09	0.127307	13.34	1.000	0.000	2,402	2.399	1.339
12.71	12.70	20.3	32	-0.09	0.127776	13.39	1.000	0.500	2,400	2.393	1.533
12.79	12.00	304	92	-0.09	0.128000	19.35	1.030	0.569	2,407	2.390	1.530
12.70	12.03	204	32	-0.09	0.120201	13.35	1.007	0.505	2,407	2.307	1.330
12.79	12.00	304	92	-0.09	0.126502	19.50	1.097	0.565	2,400	2.397	1.500
12.01	12.07	.30%	36	-0.09	0.120713	13.30	1.007	0.505	2,400	2.337	1.337
12.04	12.90	202	32	-0.09	0.123005	13.57	1.901	0.503	2,400	2,401	1.540
12.07	12.33	303	92	-0.09	0.129290	13.50	1,000	0.592	2,492	2,400	1.542
12.00	12.70	303	32	-0.09	0.123000	13.30	1.000	0.392	2,402	2,400	1.342
12.32	12.00	393	32	-0.09	0.129799	10.59	1,000	0.392	2,491	2,399	1.544
12.34	43,000	393	36	-0.09	0.130020	13.39	1.003	0.092	2,491	2.399	1.341
12.30	13.02	300	32	-0.09	0.120231	19.60	1.009	0.592	2,400	2,409	1.544
12.99	13.03	300	31	-0.09	0.130342	13.01	1.903	0.395	2,490	2,403	1.540
10.01	43.40	000	04	0.00	0.130343	10.01	1.003	0.000	2,402	0.400	1.040
13.04	13.10	307	91	-0.09	0.131025	10.02	1.007	0.595	2.502	2,407	1.540
13.06	13.12	307	31	-0.09	0.131240	13.62	1.907	0.395	2.301	2.407	1.340
13.08	13.15	357	91	-0.09	0.131457	19.63	1.906	0.595	2.501	2.406	1.548
13.11	13.17	367	31	-0.09	0.131/48	10.63	1.906	0.595	2,500	2,405	1,548
13.13	13.20	307	31	-0.10	0.151969	10.09	1.905	0.596	2.303	2,400	1.350
13.16	13.23	368	91	-0.10	0.137751	19.64	1.910	0.598	2.507	2.410	1.552
13.18	13.25	367	31	-0.10	0.132972	10.65	1.904	0.596	2.501	2,404	1,550
13.20	13.27	307	31	-0.10	0.102003	10.05	1.903	0.596	2.301	2.403	1.349
13.23	13.30	358	31	-0.10	0.132974	13.65	1.908	0.598	2.505	2,408	1.352
13.25	13.32	200	31	-0.10	0.155196	13.67	1.913	0.396	2.3.00	2.413	1.354
13.27	13.34	363	91	-0.10	0.133407	19.67	1.912	0.600	2.515	2.412	1.555
15.30	13.55	3/0	- 51	-0.10	0.133578	13.68	1.917	0.600	2.517	2.417	1.353

	Delarm	Calda	Presiden	Incremento		Åres	Enforme	a'3	11	=1	Effuerzo
Deformación	Uniteria	Ceres	de poros	deportos	Deform.	Correction	Dervindor	Electivo	Electivo	Total	Promedio
(mm)	56	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
18.82	13.38	870	91	.0.10	0.133839	19.68	1.916	0.600	2 5 1 7	2.416	1 559
13.34	19.41	374	91	-0.10	0.134060	19.69	1 921	0.600	2 5 2 1	2.421	1 561
13.37	13.44	871	91	-0.10	0.134351	19.69	1 921	0.600	2 5 2 1	2.421	1 561
13.38	19.45	871	91	-0.10	0.134492	19.20	1 920	0.600	2 5 2 1	2,420	1 560
12.41	10.40	374	01	-0.10	0.104700	10.70	1.000	0.600	2,520	2,420	1 540
12.41	10.51	371	24	-0.10	0.134763	10.75	1.020	0.000	2.520	2,420	1 569
13.45	19.59	373	91	-0.10	0.135286	19.71	1.939	0.600	2.529	2,439	1 565
13.40	10.00	373	01	-0.10	0.105507	10.73	1.030	0.602	3 6 3 4	3,439	1 547
13,40	10.55	373	91	-0.10	0.135507	10.72	1.020	0.603	2.331	2,420	1.50/
10.00	10.00	374	04	-0.10	0.130710	40.72	1.000	0.000	2.000	2,422	4 6 6 6
13.55	10.00	374	91	-0.10	0.136010	10.73	1.002	0.003	2.333	2,432	1.303
13.30	13,03	374	91	-0.10	0.136301	10.74	1.002	0.603	2.333	2,402	1.503
40.00	40.00	2010	0.4	0.10	0.100001	40.77	4.000	0.000	0.004	0.000	4.000
13.62	10.74	374	91	-0.10	0.120074	10.75	1.930	0.000	2.339	2,430	1.000
13.04	13.71	3/4	31	-0.10	0.137093	10.75	1.330	0.003	2.333	2.430	1.300
13.67	13.74	3/5	90	-0.11	0.137376	19.76	1.934	0.606	2.540	2.434	1.573
13.70	13.77	3/5	90	-0.11	0.137668	19.77	1.934	0.606	2.540	2.434	1.573
13.72	13.79	3/0	30	-0.11	0.13/003	13.77	1.330	0.000	2.344	2,430	1.5/5
13.75	13.82	376	90	-0.11	0.1381/0	19.78	1.938	0.605	2.544	2.438	1.575
13.78	13.85	3/6	90	-0.11	0.138462	19.79	1.937	0.606	2.543	2.437	1.574
13.81	13.88	376	90	-0.11	0.138/53	19.79	1.938	0.605	2.542	2.435	1.574
13.83	13.90	377	90	-0.11	0.138964	19.80	1.941	0.609	2.550	2.441	1579
13.85	13.93	377	90	-0.11	0.139256	19.80	1.941	0.609	2.549	2.441	1.579
13.89	13.95	377	90	-0.11	0.139547	19.81	1.940	0.609	2.549	2.440	1.579
13.91	13.98	377	90	-0.11	0.139758	19.82	1.939	0.609	2.548	2.439	1.578
13.94	14.00	377	90	-0.11	0.140050	19.82	1.939	0.609	2.547	2.439	1.578
13.96	14.03	377	90	-0.11	0.140341	19.83	1.938	0.609	2.547	2.438	1.578
13.99	14.06	377	90	-0.11	0.140552	19.83	1.938	0.609	2.546	2.438	1.577
14.01	14.08	377	90	-0.11	0.140844	19.84	1.937	0.609	2.546	2.437	1.577
14.04	14.11	377	90	-0.11	0.141135	19.85	1.936	0.609	2.545	2.436	1.577
14.07	14.14	377	90	-0.11	0.141427	19.85	1.936	0.611	2.547	2.436	1.579
14.09	14.16	377	90	-0.11	0.141638	19.86	1.935	0.611	2.547	2.435	1.579
14.12	14.19	377	90	-0.11	0.141929	19.87	1.934	0.611	2.546	2.434	1.579
14.15	14.22	376	90	-0.11	0.142221	19.87	1.929	0.611	2.540	2.429	1.576
14.18	14.25	376	90	-0.11	0.142502	19.88	1.928	0.611	2.540	2.428	1.576
14.20	14.27	375	90	-0.11	0.142723	19.88	1.922	0.611	2.534	2.422	1.573
14.23	14.30	375	90	-0.11	0.143015	19.89	1.922	0.611	2.533	2.422	1.572
14.26	14.33	375	90	-0.11	0.143296	19.90	1.921	0.611	2.533	2.421	1.572
14.28	14.35	375	90	-0.11	0.143517	19.90	1.921	0.611	2.532	2.421	1.572
14.31	14.38	375	89	-0.11	0.143809	19.91	1.920	0.614	2.534	2.420	1.574
14.34	14.41	375	90	-0.11	0.144090	19.92	1.919	0.611	2.531	2.419	1.571
14.36	14.43	374	89	-0.11	0.144311	19.92	1.914	0.614	2.528	2.414	1.571
14.39	14.46	374	90	-0.11	0.144603	19.93	1.913	0.611	2.525	2.413	1.568
14.42	14.49	374	89	-0.11	0.144884	19.93	1.912	0.614	2.527	2.412	1.571
14.44	14.51	374	89	-0.11	0.145105	19.94	1.912	0.614	2.526	2.412	1.570
14.47	14.54	374	89	-0.11	0.145396	19.95	1.911	0.614	2.526	2.411	1.570
14.49	14.56	374	89	-0.11	0.145608	19.95	1.911	0.614	2.525	2.411	1.570
14.52	14.59	374	89	-0.11	0.145899	19.96	1.910	0.614	2.524	2.410	1.569
14.55	14.62	374	89	-0.12	0.146190	19.97	1.910	0.617	2.527	2.410	1.572
14.57	14.64	374	89	-0.12	0.146402	19.97	1.909	0.617	2.526	2.409	1.572
14.59	14.66	374	89	-0.12	0.146623	19.98	1.909	0.617	2.526	2.409	1.571
14.62	14.69	374	89	-0.12	0.146914	19.98	1.908	0.617	2.525	2.408	1.571
14.65	14.72	374	89	-0.12	0.147195	19.99	1.907	0.617	2.524	2.407	1.571

	Deform.	Celda	Presión	Incremento		Åren	Estuerzo	:3	- 11	:1	Erfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Derviedor	Electivo	Electivo	Total	Promedio
(mm)		N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
14.67	14.74	374	89	-0.12	0.147417	19.99	1.907	0.617	2.524	2.407	1.570
14.70	14.77	374	89	-0.12	0.147708	20.00	1.906	0.617	2.523	2.406	1.570
14.72	14.79	375	89	-0.12	0.147919	20.01	1.911	0.617	2.528	2.411	1.572
14.74	14.81	375	89	-0.12	0.148140	20.01	1.910	0.620	2.530	2.410	1.575
14.77	14.84	375	89	-0.12	0.148422	20.02	1.910	0.620	2.530	2.410	1.575
14.79	14.86	376	89	-0.12	0.148643	20.02	1.914	0.620	2.534	2.414	1.577
14.82	14.89	375	89	-0.12	0.148934	20.03	1.909	0.620	2.528	2.409	1.574
14.84	14.91	375	89	-0.12	0.149145	20.03	1.908	0.620	2.528	2.408	1.574
14.86	14.94	375	89	-0.12	0.149366	20.04	1.908	0.620	2.527	2.408	1.574
14.89	14.96	376	89	-0.12	0.149648	20.05	1.912	0.620	2.532	2.412	1.576
14.91	14.99	375	89	-0.12	0.149869	20.05	1.906	0.620	2.526	2.406	1.573
14.93	15.01	375	89	-0.12	0.150090	20.06	1.906	0.623	2.529	2.406	1.576
14.96	15.04	375	89	-0.12	0.150871	20.06	1.905	0.623	2.528	2.405	1.575
14.98	15.06	374	89	-0.12	0.150592	20.07	1.900	0.620	2.520	2.400	1.570
15.01	15.09	374	89	-0.12	0.150884	20.08	1.899	0.623	2.522	2.399	1.572
15.03	15.11	374	89	-0.12	0.151095	20.08	1.899	0.620	2.518	2.399	1.569
15.06	15.14	374	89	-0.12	0.151386	20.09	1.898	0.620	2.518	2.398	1.569
15.08	15.16	374	89	-0.12	0.151597	20.09	1.897	0.623	2.520	2.397	1.571
15.11	15.19	374	89	-0.12	0.151889	20.10	1.897	0.623	2.519	2.397	1.571
15.14	15.21	374	89	-0.12	0.152110	20.10	1.896	0.623	2.519	2.396	1.571
15.16	15.24	374	89	-0.12	0.152391	20.11	1.896	0.623	2.518	2.396	1.570
15.19	15.26	374	89	-0.12	0.152613	20.12	1.895	0.623	2.518	2.395	1.570
15.21	15.28	374	89	-0.12	0.152834	20.12	1.895	0.623	2.517	2.395	1.570
15.24	15.31	375	88	-0.13	0.153115	20.13	1.899	0.625	2.525	2.399	1.575
15.26	15.33	374	89	-0.12	0.153336	20.13	1.894	0.623	2.516	2.394	1.569
15.28	15.35	374	88	-0.13	0.153547	20.14	1.893	0.625	2.519	2,393	1.572
15.31	15.38	374	88	-0.13	0.153839	20.15	1.892	0.625	2.518	2.392	1.572
15.33	15.41	374	88	-0.13	0.154060	20.15	1.892	0.625	2.517	2,392	1.571
15.35	15.43	374	88	-0.13	0.154271	20.16	1.891	0.625	2.517	2.391	1.571
15.37	15.45	374	88	-0.13	0.154492	20.16	1.891	0.628	2.519	2.391	1.574
15.40	15.48	374	88	-0.13	0.154773	20.17	1.890	0.628	2.519	2.390	1.573
15,42	15.50	374	88	-0.13	0.154994	20.17	1.890	0.628	2.518	2.390	1.573
15.44	15.52	375	88	-0.13	0.155216	20.18	1.894	0.628	2.523	2,394	1.575
15.47	15.55	375	88	-0.13	0.155497	20.19	1.894	0.628	2.522	2.394	1.575
15.50	15.58	376	88	-0.13	0.155788	20.19	1.898	0.628	2.526	2.398	1.577
15.52	15.60	377	88	-0.13	0.156010	20.20	1.903	0.628	2.531	2,403	1.580
15.55	15.63	378	88	-0.13	0.156291	20.20	1.907	0.631	2.538	2.407	1.585
15.57	15.65	378	88	-0.13	0.156512	20.21	1.907	0.631	2,538	2,407	1.584
15.60	15.68	378	88	-0.13	0.156803	20.22	1.906	0.631	2.537	2,406	1.584
15.62	15.70	379	88	-0.13	0.157015	20.22	1.911	0.631	2.542	2.411	1.586
15.65	15.73	380	88	-0.13	0.157306	20.23	1.915	0.631	2.546	2.415	1.588
15.68	15.76	380	88	-0.13	0.157597	20.24	1.914	0.631	2.545	2.414	1.588
15.70	15.78	381	88	-0.13	0.157809	20.24	1.919	0.634	2.553	2,419	1.593
15.72	15.80	381	88	-0.13	0.158030	20.25	1.918	0.634	2.552	2.418	1.593
15.75	15.83	382	88	-0.13	0.158311	20.25	1.923	0.634	2.556	2.423	1.595
15.77	15.85	382	88	-0.13	0.158532	20.26	1.922	0.634	2.556	2.422	1.595
15.80	15.88	383	88	-0.13	0.158824	20.26	1.927	0.634	2.560	2.427	1.597
15.82	15.90	384	87	-0.14	0.159035	20.27	1.931	0.637	2.568	2.431	1.602
15.85	15.93	384	88	-0.13	0.159826	20.28	1.930	0.634	2.564	2.430	1.599
15.88	15.95	385	88	-0.13	0.159547	20.28	1.935	0.634	2.569	2.435	1.601
15.90	15.98	386	87	-0.14	0.159829	20.29	1.939	0.637	2.576	2.439	1.606
15.93	16.01	387	87	-0.14	0.160120	20.30	1.944	0.637	2.580	2.444	1.608

	Deferm	Calda	Presiden	Incremento		Åren	Lifeetto	a'3	a'1	:1	Erfuerzo
Deformación	Unitaria	Carga	de poros	deportos	Deform.	Correcide	Derviedor	Electivo	Electivo	Total	Promedio
(mm)	5	N	(kPa)	(ket/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kuf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(logf/cm <sup>2</sup> )	(kat/cm <sup>2</sup> )
15.05	16.00	267	97	-0.14	0.160041	20.20	1.043	0.637	1 5 80	2.442	1 600
15.95	10.00	207	97	-0.14	0.100041	20.55	1.040	0.637	2.500	2,443	1.000
10.00	42.00	307	67	-0.14	0.100013	50.54	1.047	0.037	3 6 6 4	2,442	1,610
16.00	16.11	200	07	-0.14	0.100044	20.31	1.046	0.637	2.304	2.447	1,610
10.05	10.11	200	07	-0.14	0.101130	20.32	1.040	0.000	2.399	2.440	1.013
16.05	16.13	363	87	-0.14	0.151345	20.33	1.951	0.639	2,590	2.451	1.615
16.00	10.10	203	0/ 07	-0.14	0.101030	20.35	1.055	0.639	2,390	2,450	1.014
10.11	10.13	330	0/	-0.14	0.101929	20.39	1.300	0.000	2.304	2,400	1.017
16.13	18.21	390	87	-0.14	0.162140	20.35	1.954	0.639	2.595	2.454	1.616
15.15	16.24	390	87	-0.14	0.162432	20.35	1.953	0.639	2.593	2.453	1.616
16.19	16.27	391	87	-0.14	0.162723	20.36	1.958	0.639	2.597	2.458	1.618
16.21	16.29	391	87	-0.14	0.162934	20.36	1.957	0.642	2.599	2.457	1.621
16.24	16.32	392	87	-0.14	0.163226	20.37	1.962	0.642	2.604	2.462	1.625
16.26	16.34	393	87	-0.14	0.163437	20.38	1.966	0.642	2.608	2.466	1.625
16.29	16.37	393	87	-0.14	0.163728	20.38	1.965	0.642	2.607	2.465	1.625
16.31	16.39	393	87	-0.14	0.163949	20.39	1.965	0.642	2.607	2.465	1.625
16.34	16.42	393	87	-0.14	0.164231	20.40	1.964	0.642	2.606	2.464	1.624
16.36	16.45	394	87	-0.14	0.164452	20.40	1.969	0.642	2.611	2.469	1.626
16.39	16.47	394	87	-0.14	0.164743	20.41	1.968	0.642	2.610	2.468	1.626
16.41	16.50	394	87	-0.14	0.164954	20.41	1.967	0.642	2.610	2.467	1.626
16.44	16.52	395	86	-0.14	0.165246	20.42	1.972	0.645	2.617	2.472	1.631
16.46	16.55	395	86	-0.14	0.165467	20.43	1.971	0.645	2.616	2.471	1.631
16.49	16.57	395	86	-0.14	0.165748	20.43	1.971	0.645	2.616	2.471	1.630
16.51	16.60	395	86	-0.14	0.165969	20.44	1.970	0.645	2.615	2.470	1.630
16.54	16.63	395	86	-0.14	0.166261	20.45	1.969	0.645	2.614	2.469	1.630
16.56	16.65	395	86	-0.14	0.166472	20.45	1.969	0.645	2.614	2.469	1.629
16.59	16.68	395	86	-0.14	0.166763	20.46	1.968	0.645	2.613	2.468	1.629
16.62	16.71	395	86	-0.15	0.167055	20.47	1.967	0.648	2.615	2.467	1.631
16.64	16.73	395	86	-0.15	0.167266	20.47	1.967	0.648	2.615	2.467	1.631
16.67	16.76	395	86	-0.15	0.167557	20.48	1.966	0.648	2.614	2.466	1.631
16.69	16.78	395	86	-0.15	0.167768	20.48	1.966	0.648	2.614	2.466	1.631
16.72	16.81	394	86	-0.15	0.168060	20.49	1.960	0.648	2.608	2.460	1.628
16.74	16.83	394	86	-0.15	0.168281	20.50	1.960	0.648	2.607	2.460	1.628
16.77	16.86	394	86	-0.15	0.168562	20.50	1.959	0.648	2.607	2.459	1.627
16.80	16.89	394	86	-0.15	0.168854	20.51	1 958	0.651	2.609	2.458	1.630
16.82	16.91	393	86	-0.15	0.169075	20.51	1.953	0.651	2.603	2.453	1.627
16.84	16.93	392	86	-015	0.169286	20.52	1.947	0.651	2 5 9 8	2 447	1.624
16.87	16 96	392	86	-0.15	0.169577	20.53	1.947	0.651	2,597	2.447	1,624
16.89	16.98	201	86	.0.15	0.169789	20.53	1.941	0.651	2 5 9 2	2 441	1.621
16.92	17.01	392	86	-0.15	0.170080	20.54	1.945	0.651	2 596	2.445	1.623
16.95	17.04	391	86	-0.15	0.170871	20.55	1.940	0.651	2 590	2 440	1.620
16.00	17.07	201	90	-0.15	0.170663	20.55	1.030	0.651	3 500	3,429	1,630
12.20	17.00	201	00	-0.15	0.170003	20.35	1.939	0.651	2.300	2,433	1,620
47.00	47.45	391	60 62	-0.15	0.170074	20.00	4,030	0.001	5,705	5,455	4,000
17.02	17.11	331	00	-0.15	0.171095	20.00	1.330	0.051	2.507	2.430	1.020
17.05	17.14	390	00 94	-0.15	0.171585	20.57	1.932	0.653	2.365	2,452	1.620
17.07	17.10	390	00	-0.15	0.171597	20.56	1.332	0.000	2.303	2.432	1.619
17.10	17.19	590	85	-0.15	0.171889	20.58	1.951	0.653	2.585	2.451	1.619
17.12	17.21	350	66	-0.15	0.172100	20.55	1.951	0.653	2.584	2.451	1.615
17.15	17.24	363	00	-015	0.172391	20.00	1.975	0.653	1.378	2.425	1.010
17.18	17.26	390	86	-0.15	0.172612	20.60	1.930	0.653	2.583	2.430	1.618
17.20	17.29	389	85	-0.16	0.172894	20.61	1.924	0.656	2.580	2.424	1.618
17.23	17.31	389	85	-0.16	0.173115	20.62	1.924	0.656	2.580	2.424	1.618
17.25	17.34	389	86	-0.15	0.173406	20.62	1.923	0.653	2.576	2.423	1.615

	Deform.	Celda	Presión	Incremento		Åree	Infuerto	1.3	- 11	:1	Erfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregide	Dervindor	Electivo	Electivo	Total	Promedio
(mm)	56	N	(kPa)	(kgt/cm <sup>2</sup> )	Vertenie	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kg(/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
17.28	17.36	389	85	-0.16	0.173618	20.63	1.922	0.656	2.578	2.422	1.617
17.30	17.39	389	85	-0.16	0.173909	20.63	1.922	0.656	2.578	2.422	1.617
17.33	17.41	389	85	-0.16	0.174120	20.64	1.921	0.656	2.577	2.421	1.617
17.35	17.44	389	85	-0.16	0.174411	20.65	1.920	0.656	2.577	2.420	1.616
17.38	17.46	389	85	-0.16	0.174633	20.65	1.920	0.656	2.576	2.420	1.616
17.40	17.49	388	85	-0.16	0.174914	20.66	1.914	0.656	2.570	2.414	1.613
17.43	17.52	388	85	-0.16	0.175205	20.67	1.914	0.656	2.570	2.414	1.613
17.46	17.54	388	85	-0.16	0.175427	20.67	1.913	0.659	2.572	2.413	1.615
17.48	17.57	388	85	-0.16	0.175708	20.68	1.913	0.659	2.571	2.413	1.615
17.51	17.59	388	85	-0.16	0.175929	20.69	1.912	0.659	2.571	2.412	1.615
17.53	17.62	388	85	-0.16	0.176221	20.69	1.911	0.659	2.570	2.411	1.615
17.56	17.65	388	85	-0.16	0.176502	20.70	1.911	0.659	2.570	2.411	1.614
17.58	17.67	38	85	-0.16	0.176653	20.70	1.910	0.659	2.569	2.410	1.614
17.61	17.69	388	85	-0.16	0.176944	20.71	1.910	0.659	2.569	2.410	1.614
17.63	17.72	388	85	-0.16	0.177155	20.72	1.909	0.662	2.571	2.409	1.616
17.66	17.74	38	85	-0.16	0.177447	20.72	1.909	0.659	2.567	2.409	1.613
17.68	17.77	388	85	-0.16	0.177658	20.73	1.908	0.662	2.570	2.408	1.616
17.71	17.79	388	85	-0.16	0.177949	20.74	1.907	0.662	2.569	2.407	1.615
17.73	17.82	38	85	-0.16	0.178170	20.74	1.907	0.662	2.568	2.407	1.615
17.76	17.85	388	85	-0.16	0.178452	20.75	1.906	0.662	2.568	2.406	1.615
17.78	17.87	388	85	-0.16	0.178673	20.75	1.906	0.662	2.567	2.406	1.614
17.80	17.89	388	85	-0.16	0.178894	20.76	1.905	0.662	2.567	2.405	1.614
17.83	17.92	389	85	-0.16	0.179175	20.77	1.909	0.662	2.571	2.409	1.616
17.85	17.94	389	84	-0.16	0.179396	20.77	1.909	0.664	2.573	2.409	1.619
17.87	17.96	389	84	-0.16	0.179607	20.78	1.908	0.664	2.573	2.408	1.619
17.90	17.99	390	84	-0.16	0.179899	20.79	1.913	0.664	2.577	2.413	1.621
17.92	18.01	391	84	-0.16	0.180120	20.79	1.917	0.664	2.581	2.417	1.623
17.95	18.04	391	84	-0.16	0.180401	20.80	1.916	0.664	2.581	2.416	1.623
17.97	18.06	392	84	-0.16	0.180552	20.80	1.921	0.664	2.585	2.421	1.625
17.99	18.08	392	84	-0.17	0.180834	20.81	1.920	0.667	2.587	2.420	1.627
18.02	18.11	393	84	-0.17	0.181055	20.81	1.925	0.667	2.592	2.425	1.630
18.04	18.13	393	84	-0.17	0.181276	20.82	1.924	0.667	2.591	2.424	1.629
18.06	18.15	393	84	-0.17	0.181487	20.83	1.924	0.667	2.591	2.424	1.629
18.09	18.18	393	84	-0.17	0.181778	20.83	1.923	0.667	2.590	2.423	1.629
18.12	18.21	393	84	-0.17	0.182070	20.84	1.922	0.667	2.589	2.422	1.628
18.14	18.23	393	84	-0.17	0.182281	20.85	1.922	0.667	2.589	2.422	1.628
18.16	18.25	394	84	-0.17	0.182502	20.85	1.926	0.667	2.593	2.426	1.630
18.18	18.27	394	84	-0.17	0.182713	20.86	1.926	0.670	2.596	2.426	1.633
18.21	18.30	394	84	-0.17	0.183004	20.86	1.925	0.667	2.592	2.425	1.630
18.23	18.32	394	84	-0.17	0.183226	20.87	1.924	0.670	2.594	2.424	1.632
18.25	18.34	395	84	-0.17	0.183437	20.88	1.929	0.670	2.599	2.429	1.634
18.27	18.37	395	84	-0.17	0.183658	20.88	1.928	0.670	2.598	2.428	1.634
18.30	18.39	395	84	-0.17	0.183869	20.89	1.928	0.670	2.598	2.428	1.634
18.32	18.41	395	84	-0.17	0.184090	20.89	1.927	0.673	2.600	2.427	1.636
18.34	18.43	395	84	-0.17	0.184301	20.90	1.927	0.670	2.597	2.427	1.633
18.36	18.45	395	84	-0.17	0.184522	20.90	1.926	0.673	2.599	2.426	1.636
18.39	18.48	395	84	-0.17	0.184813	20.91	1.926	0.673	2.598	2.426	1.636
18.41	18.50	395	84	-0.17	0.185025	20.92	1.925	0.673	2.598	2.425	1.635
18.44	18.53	396	84	-0.17	0.185316	20.92	1.929	0.673	2.602	2.429	1.637
18.46	18.55	396	84	-0.17	0.185527	20.93	1.929	0.673	2.602	2.429	1.637
18.48	18.57	396	84	-0.17	0.185748	20.93	1.928	0.673	2.601	2.428	1.637
18.51	18.60	396	83	-0.18	0.186040	20.94	1.928	0.676	2.603	2.428	1.639

	Deform.	Celda	Presión	Incremento		Åres	Erfuerto	13	11	=1	Erfuerzo
Deformación	Unitaria	Carga	de poros	deporos	Deform.	Correction	Dervindor	Dectivo	Dectivo	Total	Promedio
(mm)	8	N	(kPa)	(ket/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kef/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(ket/cm <sup>2</sup> )
1853	18.63	205	83	.0.18	0.186251	20.95	1.927	0.676	2,603	2,407	1.639
18.55	18.65	397	83	-0.18	0 186542	20.96	1.931	0.676	2.607	2.431	1.641
1858	18.68	397	83	-0.18	0.186753	20.96	1.931	0.676	2,606	2,431	1.641
18.61	18.70	397	83	-0.18	0.187045	20.97	1.930	0.676	2.606	2,430	1.641
10.01	10.70	207	00	-0.10	0.107045	20.07	1.000	0.676	3,000	2,400	1.640
10.00	10.73	397	63	-0.10	0.107247	20.37	1.929	0.679	2,605	2,423	1.040
18.69	18.78	292	83	-0.18	0.187839	20.99	1.933	0.676	2.609	2,433	1.642
19.73	10.01	200	00	-0.19	0.100100	21.00	1.022	0.679	2,611	2,423	1 6 8 5
10.72	10.01	200	99	-0.18	0.100130	21.00	1.002	0.678	2.011	2.432	1.647
10.73	10.04	200	60 60	-0.10	0.100921	21.00	1.000	0.070	2.015	2,400	1.047
10.77	10.00	293	63	-0.10	0.1000033	21.01	1.000	0.070	2.014	2,430	1.040
10.00	10.03	399	63	-0.18	0.100024	21.02	1.000	0.678	2.014	2,433	1.040
10.00	10.32	400	92	-0.10	0.100417	24.02	1.000	0.070	2,010	2,422	1.040
10.00	10.94	400	63	-0.15	0.109427	21.05	1.939	0.070	2.017	2,439	1.040
10.00	10.37	400	63	-0.15	0.109/10	21.04	1.336	0.001	2.019	2.430	1.650
18.91	19.00	400	83	-0.18	0.190009	21.05	1.937	0.681	2.619	2.437	1.650
18.93	19.03	400	83	-0.18	0.190291	21.05	1.957	0.681	2.618	2.437	1.650
18.96	19.06	400	83	-0.18	0.190582	21.06	1.936	0.681	2.617	2.436	1.645
18.99	19.08	400	83	-0.18	0.190803	21.07	1.936	0.681	2.617	2.436	1.649
19.01	19.10	400	83	-0.18	0.191014	21.07	1.935	0.681	2.616	2.435	1.649
19.04	19.13	400	83	-0.18	0.191306	21.08	1.934	0.681	2.616	2.434	1.648
19.06	19.16	399	82	-0.18	0.191597	21.09	1.929	0.684	2.613	2.429	1.648
19.09	19.19	399	82	-0.18	0.191879	21.09	1.928	0.684	2.612	2.428	1.648
19.11	19.21	400	82	-0.18	0.192100	21.10	1.932	0.684	2.616	2.432	1.650
19.14	19.24	399	82	-0.18	0.192391	21.11	1.927	0.684	2.611	2.427	1.647
19.17	19.27	399	82	-0.18	0.192673	21.11	1.926	0.684	2.610	2.426	1.647
19.20	19.30	399	82	-0.18	0.192964	21.12	1.926	0.684	2.610	2.426	1.647
19.23	19.33	398	82	-0.18	0.193256	21.13	1.920	0.684	2.604	2.420	1.644
19.25	19.35	397	82	-0.18	0.193467	21.14	1.915	0.684	2.599	2.415	1.641
19.28	19.38	397	82	-0.18	0.193758	21.14	1.914	0.684	2.598	2.414	1.641
19.31	19.40	10 33	82	-0.18	0.194050	21.15	1.909	0.684	2.593	2.409	1.638
19.34	19.43	396	82	-0.19	0.194341	21.16	1.908	0.687	2.595	2.408	1.641
19.37	19.46	395	82	-0.19	0.194622	21.17	1.902	0.687	2.589	2.402	1.638
19.39	19.49	394	82	-0.19	0.194914	21.17	1.897	0.687	2.584	2.397	1.635
19.42	19.51	394	82	-0.19	0.195135	21.18	1.896	0.687	2.583	2.396	1.635
19.44	19.54	393	82	-0.19	0.195416	21.19	1.891	0.687	2.578	2.391	1.632
19.47	19.56	393	82	-0.19	0.195638	21.19	1.890	0.687	2.577	2.390	1.632
19.50	19.59	392	82	-0.19	0.195929	21.20	1.885	0.687	2.572	2.385	1.629
19.52	19.62	392	82	-0.19	0.196210	21.21	1.884	0.687	2.571	2.384	1.629
19.55	19.65	392	82	-0.19	0.196502	21.22	1.884	0.687	2.570	2.384	1.628
19.58	19.68	392	82	-0.19	0.196793	21.22	1.883	0.687	2.570	2.383	1.628
19.61	19.71	392	82	-0.19	0.197085	21.23	1.882	0.690	2.572	2.382	1.631
19.63	19.73	392	82	-0.19	0.197296	21.24	1.882	0.690	2.571	2.382	1.630
19.66	19.76	392	82	-0.19	0.197587	21.24	1.881	0.687	2.568	2.381	1.627
19.69	19.79	391	82	-0.19	0.197879	21.25	1.876	0.690	2.565	2.376	1.627
19.71	19.81	392	82	-0.19	0.198090	21.26	1.880	0.690	2.569	2.380	1.629
19.73	19.83	392	82	-0.19	0.198311	21.26	1.879	0.687	2,566	2,379	1,626
19.76	19.86	392	82	-0.19	0.198592	21.27	1.879	0.690	2.568	2.379	1.629
19.78	19.88	392	82	-0.19	0.198813	21.28	1.878	0.690	2.568	2.378	1.629
19.80	19.90	391	82	-0.19	0.199035	21.28	1,873	0,690	2,562	2,373	1,626
19.83	19.92	391	82	-0.19	0,199246	21.29	1.872	0.690	2.562	2.372	1.626
19.85	19.95	390	82	-0.19	0 199537	21.90	1.867	0.690	2556	2 867	1.623
19.88	19.97	390	82	-0.19	0.199748	21.30	1.866	0.690	2.556	2.366	1.623
	Deform.	Celda	Presión	Incremento		Åren	Erfuerzo	13	11	11	Erfuerzo
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Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Derviedor	Electivo	Efectivo	Total	Promedio
(mm)	-	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>*</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(ket/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
19.90	20.00	391	82	-0.19	0.200040	21.31	1.870	0.690	2.560	2.370	1.625
19.93	20.03	390	82	-0.19	0.200261	21.31	1.865	0.692	2.557	2.365	1.625
19.95	20.05	391	82	-0.19	0.200542	21.32	1.869	0.692	2.562	2.369	1.627
19.98	20.08	391	82	-0.19	0.200763	21.33	1.869	0.692	2.561	2.369	1.627
20.01	20.11	390	82	-0.19	0.201055	21.34	1.863	0.692	2.556	2.363	1.624
20.03	20.13	390	82	-0.19	0.201336	21.34	1.863	0.692	2.555	2.363	1.624
20.06	20.16	390	82	-0.19	0.201557	21.35	1.862	0.692	2.554	2.362	1.623
20.08	20.18	391	82	-0.19	0.201778	21.36	1.866	0.692	2.559	2.366	1.626
20.11	20.21	391	82	-0.19	0.202060	21.36	1.866	0.692	2.558	2.366	1.625
20.13	20.23	391	82	-0.19	0.202281	21.37	1.865	0.692	2.558	2.365	1.625
20.15	20.25	391	82	-0.19	0.202492	21.37	1.865	0.692	2.557	2.365	1.625
20.18	20.28	390	82	-0.19	0.202783	21.38	1.859	0.692	2.552	2.359	1.622
20.20	20.30	389	81	-0.20	0.203004	21.39	1.854	0.695	2.549	2.354	1.622
20.22	20.32	389	81	-0.20	0.203215	21.39	1.853	0.695	2.549	2.353	1.622
20.25	20.35	388	81	-0.20	0.203507	21.40	1.848	0.695	2.543	2.348	1.619
20.27	20.37	388	81	-0.20	0.203718	21.41	1.848	0.695	2.543	2.348	1.619
20.29	20.39	388	81	-0.20	0.203939	21.41	1.847	0.695	2.542	2.347	1.619
20.31	20.42	388	81	-0.20	0.204160	21.42	1.847	0.695	2.542	2.347	1.618
20.34	20.44	388	81	-0.20	0.204442	21.43	1.846	0.695	2.541	2.346	1.618
20.36	20.47	388	81	-0.20	0.204663	21.43	1.845	0.695	2.540	2.345	1.618
20.39	20.50	389	81	-0.20	0.204954	21.44	1.849	0.695	2.545	2.349	1.620
20.41	20.52	388	81	-0.20	0.205165	21.45	1.844	0.698	2.542	2.344	1.620
20.44	20.55	389	81	-0.20	0.205457	21.45	1.848	0.698	2.546	2.348	1.622
20.46	20.57	389	81	-0.20	0.205668	21.46	1.848	0.698	2.546	2.348	1.622
20.49	20.60	389	81	-0.20	0.205959	21.47	1.847	0.695	2.542	2.347	1.619
20.52	20.62	389	81	-0.20	0.206180	21.47	1.847	0.698	2.544	2.347	1.621
20.54	20.65	389	81	-0.20	0.206462	21.48	1.846	0.698	2.544	2.346	1.621
20.56	20.66	389	81	-0.20	0.206612	21.49	1.846	0.698	2.543	2.346	1.621
20.59	20.69	389	81	-0.20	0.206894	21.49	1.845	0.698	2.543	2.345	1.620
	T	I	-	Etapa	de falla seg	undo incre	mento		I		1
Deformación	Deform.	Celda	Presión	Incremento	Deform	Area	Ertuento	a'3	a'1	s <b>1</b>	Erfuerzo
(mm)	Unitaria	Carga	de poros	deporos	Unitaria	Corregida	Dervisdor	Electivo	Electivo	Total	Promedio
	*	N	(kPa)	(kgt/cm*)		(cm*)	(kg(/cm <sup>*</sup> )	(kgl/cm <sup>*</sup> )	(kgi/cm )	(kgi/cm <sup>*</sup> )	(kgi/cm*)
0.00	0.00	0	77	0.00	0.000000	17.24	0.000	1.000	1.000	1.000	1.000
0.02	0.02	- 14	77	0.01	0.000213	17.24	0.083	0.994	1.077	1.083	1.036
0.05	0.05	23	78	0.01	0.000508	17.24	0.136	0.989	1.125	1.136	1.057
0.07	0.07	32	78	0.02	0.000721	17.25	0.189	0.983	1.172	1.189	1.078
0.10	0.10	39	79	0.02	0.001015	17.25	0.230	0.978	1.208	1.230	1.093
0.13	0.13	45	79	0.03	0.001309	17.26	0.266	0.972	1.238	1.266	1.105
0.15	0.15	51	80	0.03	0.001523	17.26	0.301	0.967	1.268	1.301	1.117
0.18	0.18	57	81	0.04	0.001817	17.27	0.337	0.961	1.297	1.337	1.129
0.20	0.20	61	81	0.04	0.002040	17.27	0.360	0.955	1.315	1.360	1.135
0.23	0.23	65	82	0.05	0.002324	17.28	0.384	0.950	1.333	1.384	1.142
0.25	0.25	70	82	0.05	0.002548	17.28	0.413	0.947	1.360	1.413	1.154
0.28	0.28	73	82	0.06	0.002842	17.28	0.431	0.941	1.372	1.431	1.157
0.31	0.31	78	83	0.06	0.003126	17.29	0.460	0.936	1.396	1.460	1.165
0.33	0.33	82	84	0.07	0.003350	17.29	0.483	0.930	1.414	1.483	1.172
0.36	0.36	86	84	0.08	0.003644	17.30	0.507	0.925	1.432	1.507	1.178
0.39	0.39	89	84	0.08	0.003928	17.30	0.524	0.922	1.446	1.524	1.184
0.41	0.42	93	85	0.09	0.004152	17.31	0.548	0.914	1.461	1.548	1.187
0.44	0.44	96	86	0.09	0.004446	17.31	0.565	0.911	1.476	1.565	1.193

	Dataset	Calda	<b>Practice</b>	Incremento		Åres	Enforme	13	11	:1	Eduardo
Deformación	Unitaria	Carga	de poros	deportos	Deform.	Correction	Dervindor	Electivo	Electivo	Total	Promedio
(mm)	*	N	(kPa)	(ket/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kut/cm <sup>2</sup> )	(hgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kat/cm <sup>2</sup> )
0.46	0.47	00	96	0.09	0.004650	17.93	0.593	0.005	1499	1 693	1 107
0.49	0.50	102	97	0.05	0.004053	17.95	0.505	0.900	1 506	1.606	1.302
0.53	0.50	100	97	0.11	0.005349	17.00	0.000	0.904	1 5 1 9	1,634	1 306
0.52	0.52	100	97	0.11	0.005461	17.33	0.624	0.004	1.510	1.624	1.200
0.54	0.55	100	00	0.11	0.000300	17.30	0.041	0.003	1.550	1.041	1.209
0.57	0.56	112	00	0.12	0.005030	17.39	0.039	0.000	1.592	1.659	1.212
0.59	0.60	113	99	0.12	0.005363	17.39	0.676	0.000	1.500	1,699	1.210
0.02	0.00	115	00	0.15	0.000203	17.39	0.000	0.075	1.374	1.033	1.004
0.64	0.65	124	90	0.13	0.006785	17.35	0.711	0.003	1.500	1.711	1.229
0.07	0.00	4.07	39	0.24	0.000000	47.32	0.720	0.000	1.392	1.720	1.000
0.70	0.71	127	91	0.14	0.007366	17.30	0.740	0.000	1,004	1.740	1.231
0.72	0.73	100	31	0.14	0.007504	17.30	0.703	0.000	1.010	1.703	1.237
0.74	0.75	133	32	0.15	0.007301	47.37	0.701	0.040	1.000	4.701	1.040
0.77	0.78	135	92	0.16	0.007796	17.37	0.792	0.844	1.635	1,792	1.240
0.79	0.00	130	33	0.10	0.008013	17.37	0.010	0.030	1.040	1.610	1.293
0.82	0.83	140	93	0.16	0.008303	17.38	0.821	0.835	1.657	1.821	1.246
0.84	0.85	142	94	0.17	0.008526	17.38	0.833	0.830	1.663	1.833	1.246
0.00	0.67	143	29	0.10	0.008/40	17.39	0.850	0.029	1.074	1.650	1.243
0.89	0.90	147	95	0.18	0.009034	17.39	0.862	0.819	1.680	1.862	1.250
0.91	0.93	150	35	0.18	0.009257	17.40	0.879	0.816	1.695	1.8/9	1.256
0.94	0.36	153	30	0.15	0.009552	17,40	0.000	01810	1.707	1.090	1.239
0.96	0.58	155	96	0.20	0.009/65	17.41	0.908	0.805	1./13	1908	1.259
0.98	1.00	157	96	0.20	0.009988	17.41	0.919	0.802	1.721	1919	1.262
1.01	1.03	160	97	0.20	0.010272	17.41	0.937	0.797	1.733	1.937	1.265
1.03	1.05	162	97	0.21	0.010496	17.42	0.948	0.794	1.742	1948	1.268
1.05	1.08	164	98	0.21	0.010/90	17.42	0.959	0.788	1.748	1959	1.268
1.08	1.10	167	98	0.22	0.011003	17.43	0.977	0.783	1.759	1977	1.271
1.11	1.12	169	33	0.22	0.011227	17.43	0.988	0.780	1.768	1.988	1.274
1.13	1.14	171	99	0.23	0.011440	17.43	1.000	0.774	1.774	2.000	1.274
1.18	1.17	173	33	0.23	0.011734	17.44	1.011	0.771	1.783	2.011	1.277
1.18	1.20	1/5	100	0.23	0.011957	17.44	1.023	0.765	1.789	2.023	1.277
1.21	1.22	177	100	0.24	0.012242	17.45	1.034	0.763	1.797	2.034	1.280
1.23	1.25	179	101	0.24	0.012465	17.45	1.045	0.758	1.805	2.045	1.280
1.25	1.27	180	101	0.25	0.012678	17.46	1.051	0.755	1.805	2.051	1.280
1.28	1.30	183	102	0.25	0.012972	17.46	1.068	0.749	1.817	2.068	1.283
1.30	1.32	184	102	0.25	0.013196	17.47	1.074	0.746	1.820	2.074	1.283
1.32	1.34	186	103	0.26	0.013409	17.47	1.085	0.741	1.826	2.085	1.283
1.35	1.37	188	105	0.26	0.013/03	17.48	1.097	0.738	1.835	2.097	1.285
1.37	1.39	190	103	0.26	0.013916	17.48	1.108	0.735	1.843	2.108	1.289
1.40	1.42	191	105	0.27	0.014211	17.48	1.114	0.732	1.845	2.114	1.289
1.42	1.44	193	104	0.27	0.014434	17.49	1.125	0.730	1.855	2.125	1.292
1.44	1.46	195	104	0.27	0.014647	17.49	1.136	0.727	1.863	2.136	1.295
1.47	1.49	197	105	0.28	0.014871	17.50	1.148	0.721	1.869	2.148	1.295
1.49	1.51	198	105	0.28	0.015084	17.50	1.153	0.721	1.875	2.153	1.298
1.52	1.54	201	105	0.28	0.015378	17.50	1.171	0.716	1.886	2.171	1.301
1.54	1.56	202	105	0.29	0.015601	17.51	1.176	0.713	1.889	2.176	1.301
1.56	1.58	204	105	0.29	0.015815	17.51	1.187	0.710	1.898	2.187	1.304
1.59	1.61	206	105	0.29	0.016109	17.52	1.199	0.707	1.906	2.199	1.307
1.61	1.63	208	105	0.30	0.016332	17.52	1.210	0.702	1.912	2.210	1.307
1.64	1.66	210	107	0.30	0.016616	17.53	1.221	0.699	1.920	2.221	1.310
1.66	1.68	211	107	0.30	0.016840	17.53	1.227	0.699	1.926	2.227	1.312
1.68	1.71	213	107	0.31	0.017053	17.53	1.238	0.693	1.932	2.238	1.313
1.70	1.73	214	108	0.31	0.017276	17.54	1.244	0.691	1.934	2.244	1.313

	Deform.	Celda	Presión	Incremento		Åren	Estuerto	13	11	=1	Enfuerco
Deformación (mm)	Unitaria	Carga	de poros (kPa)	deports (hat/cm <sup>2</sup> )	Deform. Unitaria	Corregida (cm <sup>2</sup> )	Derviedor (het/cm <sup>2</sup> )	Efectivo (kat/cm <sup>2</sup> )	Efectivo (kat/cm <sup>2</sup> )	Total (kat/cm <sup>2</sup> )	Promedio (het/cm <sup>2</sup> )
4.75			(are)	(elisent)	0.0474.00	pan y	defitient t	0.000	10.000	2.000	feliation 1
1.72	1.75	210	100	0.31	0.017983	17.39	1.200	0.000	1.99.5	2.233	1.315
1.73	1.70	217	100	0.31	0.017704	17.30	1.201	0.000	1.340	2.201	1.010
1.00	1.00	213	100	0.32	0.018007	17.35	1.272	0.662	1.959	2.272	1.318
1.00	1.04	222	100	0.52	0.010220	17.30	1.200	0.073	1.303	2.200	1.329
1.02	1.00	229	109	0.32	0.016315	17.30	1.212	0.073	1.000	2.300	1.330
1.00	1.07	220	109	0.33	0.010051	17.30	1.312	0.074	1.000	2.312	1.300
1.07	1.00	220	1.00	0.35	0.010001	47.57	1.020	0.074	1.007	2.323	4 999
1.00	1.92	223	1.00	0.33	0.010174	17.07	1.320	0.000	3.008	2.360	1.333
1.04	4.67	222	4.60	0.00	0.010000	47.00	1.046	0.000	2,011	2.345	4 999
1.04	1.00	224	110	0.33	0.019092	17.30	1.040	0.000	2.011	1 952	1.330
1.90	2.01	234	111	0.34	0.020118	17.59	1.359	0.660	2.013	2,359	1 941
2.05	3.04	337		0.04	0.000410	17.00	1.070	0.000	2.020	3 373	1 344
2.02	2.04	237	111	0.34	0.020615	17.59	1.373	0.657	2.030	2.373	1 946
2.05	3.09	340	4.44	0.05	0.0000000	17.00	1 200	0.057	2.044	2,000	1 340
2.05	2.00	240	111	0.35	0.021144	17.00	1.390	0.653	2.049	2.390	1.343
2.10	2.14	243	112	0.35	0.021357	17.61	1.406	0.649	2.055	2.406	1 959
2.10	2.14	24.5	142	0.00	0.021590	17.01	1.413	0.045	2,059	2,412	1 000
2.13	2.10	244	112	0.00	0.021500	17.02	1,432	0.040	2.000	2,412	1 302
2.17	2.20	247	112	0.35	0.022017	17.62	1429	0.643	2.072	2.429	1 958
2.20	3.30	340	110	0.00	0.0000011	17.00	1.440	0.640	3,090	2.440	1 360
2.20	2.23	240	112	0.36	0.022511	17.63	1.445	0.638	2.000	2.445	1.360
2.24	0.07	2020	4.40	0.00	0.0000047	47.64	1.453	0.000	2,004	0.457	4 000
2.24	3.20	252	113	0.30	0.022747	17.09	1.463	0.626	2.004	2,457	1 366
2.29	2.33	255	112	0.37	0.023255	17.65	1473	0.632	2.105	2.473	1 369
2.22	3.95	200	112	0.37	0.022549	17.65	1.479	0.623	3 111	3,479	1 971
2.34	2.38	257	114	0.37	0.023762	17.65	1.484	0.629	2 113	2.470	1 371
3.97	3.41	200	114	0.37	0.004057	17.66	1.499	0.637	2.116	3.499	1 971
2.40	2.44	259	114	0.38	0.024351	17.67	1.495	0.624	2 118	2,495	1 371
2.42	2.46	260	114	0.38	0.024564	17.67	1 500	0.624	2 124	2 500	1 374
2.45	2.49	261	115	0.38	0.024859	17.67	1505	0.621	2 126	2 505	1 974
2.48	2.52	262	115	0.38	0.025153	17.68	1511	0.621	2 132	2 511	1 376
2.51	2.54	263	115	0.38	0.025437	17.69	1516	0.618	2 134	2 516	1 376
2.53	2.57	264	115	0.38	0.025661	17.69	1 521	0.615	2 187	2 521	1 376
2.56	2.60	265	115	0.38	0.025955	17.69	1 527	0.615	2 142	2 527	1 979
2.59	2.62	266	115	0.39	0.026239	17.70	1 532	0.613	2.145	2 532	1 379
2.61	2.65	266	115	0.39	0.025453	17.70	1.532	0.613	2.144	2,532	1.378
2.64	2.68	268	116	0.39	0.026757	17.71	1543	0.610	2 152	2 543	1 381
2.66	2.70	268	116	0.39	0.027041	17.71	1.542	0.610	2,152	2.542	1 381
2,69	2.73	269	116	0.39	0.027264	17.72	1.548	0.610	2.157	2.548	1.384
2.71	2.75	270	116	0.39	0.027478	17.72	1.553	0.607	2,160	2,553	1 384
2.74	2.78	271	116	0.39	0.027843	17.73	1.558	0.607	2.165	2.558	1.386
2.77	2.81	272	116	0.40	0.028066	17.73	1 564	0.604	2.168	2 564	1 386
2,79	2.84	272	116	0.40	0.028361	17.74	1.563	0.604	2,167	2,563	1,386
2.82	2.86	273	116	0.40	0.028645	17.74	1.568	0.601	2.170	2.568	1.386
2.84	2,89	274	116	0.40	0.028868	17.75	1.574	0.601	2,175	2.574	1,388
2.87	2.92	275	117	0.40	0.029163	17.75	1.579	0.599	2.178	2.579	1.388
2.90	2.94	277	117	0.40	0.029447	17.76	1.590	0.599	2.189	2.590	1.394
2,93	2.97	278	117	0.40	0.029741	17.76	1,595	0,596	2,191	2,595	1,394
2.96	3.00	279	117	0.40	0.030036	17.77	1.601	0.596	2.196	2.601	1.396
2,98	3.02	280	117	0.41	0.030249	17.77	1,606	0,593	2,199	2,606	1,396
3.01	3.05	280	117	0.41	0.030543	17.78	1.605	0.593	2.199	2.605	1.396

	Deform.	Celda	Presión	Incremento		Åres	Estuerzo	:3	a'1	=1	Enfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Dervision	Bectivo	Electivo	Total	Promedio
(mm)	<b>%</b>	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(log!/cm <sup>2</sup> )
3.03	3.08	282	117	0.41	0.030766	17.78	1.617	0.593	2.210	2.617	1.401
3.06	3.11	282	117	0.41	0.031051	17.79	1.616	0.593	2.209	2.616	1.401
3.09	3.13	283	118	0.41	0.031345	17.79	1.621	0.590	2.212	2.621	1.401
3.11	3.16	284	118	0.41	0.031568	17.80	1.627	0.590	2.217	2.627	1.404
3.14	3.19	284	118	0.41	0.031852	17.80	1.626	0.590	2.216	2.626	1.403
3.17	3.21	285	118	0.41	0.032147	17.81	1.631	0.588	2.219	2.631	1.403
3.20	3.24	285	118	0.41	0.032441	17.81	1.631	0.588	2.218	2.631	1.403
3.22	3.27	286	118	0.41	0.032654	17.82	1.636	0.588	2.224	2.636	1.406
3.25	3.29	287	118	0.41	0.032949	17.82	1.641	0.588	2.229	2.641	1.408
3.27	3.32	289	118	0.42	0.033172	17.83	1.653	0.585	2.237	2.653	1.411
3.30	3.35	290	118	0.42	0.033456	17.83	1.658	0.585	2.242	2.658	1.414
3.33	3.38	291	118	0.42	0.033751	17.84	1.663	0.585	2.248	2.663	1.416
3.35	3.40	293	118	0.42	0.034045	17.84	1.674	0.585	2.259	2.674	1.422
3.38	3.43	294	118	0.42	0.034268	17.85	1.679	0.585	2.264	2.679	1.424
3.40	3.46	295	118	0.42	0.034553	17.85	1.684	0.582	2.266	2.684	1.424
3.43	3.48	297	118	0.42	0.034776	17.86	1.695	0.582	2.277	2.695	1.430
3.46	3.51	297	118	0.42	0.035070	17.86	1.695	0.582	2.277	2.695	1.429
3.48	3.53	297	119	0.42	0.035283	17.87	1.695	0.579	2.274	2.695	1.426
3.50	3.55	298	118	0.42	0.035507	17.87	1.700	0.582	2.282	2.700	1.432
3.53	3.58	298	119	0.42	0.035791	17.88	1.699	0.579	2.279	2.699	1.429
3.55	3.60	298	119	0.42	0.036014	17.88	1.699	0.579	2.278	2.699	1.429
3.57	3.62	298	119	0.42	0.036227	17.88	1.699	0.579	2.278	2.699	1.428
3.60	3.65	299	119	0.42	0.036522	17.89	1.704	0.579	2.283	2.704	1.431
3.62	3.67	300	119	0.42	0.036745	17.89	1.709	0.579	2.288	2.709	1.434
3.65	3.70	300	119	0.42	0.037029	17.90	1.709	0.576	2.285	2,709	1.431
3.67	3.73	300	119	0.42	0.037253	17.90	1.708	0.579	2.287	2.708	1.433
3.69	3.75	301	119	0.42	0.037476	17.91	1.714	0.576	2.290	2.714	1.433
3.72	3.78	301	119	0.42	0.037760	17.91	1.713	0.576	2.289	2.713	1.433
3.75	3.81	302	119	0.42	0.038054	17.92	1.718	0.576	2.295	2.718	1.435
3.77	3.83	302	119	0.42	0.038278	17.92	1.718	0.576	2.294	2.718	1.435
3.79	3.85	303	119	0.42	0.038491	17.93	1.723	0.576	2.299	2,723	1.438
3.81	3.87	303	119	0.42	0.038714	17.93	1.723	0.576	2.299	2,723	1.438
3.84	3.90	304	119	0.42	0.038998	17.93	1.728	0.576	2.304	2,728	1.440
3.87	3.93	304	119	0.42	0.039293	17.94	1.727	0.576	2.304	2,727	1.440
3.89	3.95	305	119	0.42	0.039516	17.94	1.733	0.576	2.309	2.733	1.443
3.91	3.97	305	119	0.42	0.039729	17.95	1.732	0.576	2.309	2,732	1.442
3.94	4.00	305	119	0.42	0.039953	17.95	1.732	0.576	2.308	2.732	1.442
3.96	4.02	305	119	0.42	0.040237	17.96	1.731	0.576	2,308	2,731	1.442
3.99	4.05	305	119	0.42	0.040531	17.96	1.731	0.576	2.307	2,731	1.442
4.02	4.08	306	119	0.43	0.040755	17.97	1.736	0.574	2.310	2.736	1.442
4.04	4.10	306	119	0.43	0.040968	17.97	1.736	0.574	2,309	2,736	1.441
4.07	4.13	307	119	0.42	0.041262	17.98	1.741	0.576	2.317	2,741	1.447
4.09	4.15	307	119	0.42	0.041485	17.98	1.740	0.576	2 317	2,740	1.447
4.12	4.18	308	119	0.42	0.041770	17.99	1.746	0.576	2 3 2 2	2.746	1,449
4.14	4.20	309	119	0.42	0.041993	17.99	1.751	0.576	2.327	2,751	1.452
4.17	4,23	310	119	0.43	0.042287	18.00	1,756	0.574	2,329	2,756	1.452
4.19	4,26	311	119	0.42	0.042571	18.00	1,761	0.576	2,337	2,761	1,457
4.22	4.28	311	119	0.42	0.042795	18.01	1.761	0.576	2.337	2.761	1.457
4.25	4,31	312	119	0.42	0.043089	18.01	1,766	0.576	2.342	2,766	1,459
4.27	4,33	313	119	0.42	0.043302	18.02	1,771	0,576	2.347	2,771	1,462
4.29	4,35	313	119	0.42	0.043526	18.02	1,771	0.576	2.347	2,771	1.462
4.32	4.38	314	119	0.42	0.043810	18.03	1.776	0.576	2.352	2.776	1.464

	Deform.	Celda	Presión	Incremento		Åres	Erfeetto	13	11	:1	Erfuerzo
Deformación	Unitaria	Carga	de poros	deportos	Deform.	Correction	Dervindor	Efectivo	Efectivo	Total	Promedio
(mm)	56	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
4.34	4.40	315	119	0.42	0.044033	18.03	1.781	0.576	2.357	2,781	1.467
4.37	4.43	316	119	0.42	0.044328	18.03	1.786	0.576	2.362	2,786	1,469
4.39	4.45	316	119	0.42	0.044541	18.04	1,785	0.576	2,362	2,786	1.469
4.42	4.48	317	119	0.42	0.044835	18.04	1,791	0.576	2.367	2,791	1.472
4.44	4.51	318	119	0.42	0.045058	18.05	1 796	0.576	2 372	2 796	1.474
4.47	4,53	318	119	0.42	0.045343	18.05	1,795	0.579	2.375	2,795	1.477
4.49	4.56	319	119	0.42	0.045566	18.06	1.801	0.579	2.380	2.801	1,480
4.52	4.59	320	119	0.42	0.045860	18.06	1.806	0.579	2,385	2.806	1.482
4,54	4.61	321	119	0.42	0.046073	18.07	1.811	0.579	2.390	2.811	1,485
4.57	4.64	322	119	0.42	0.046368	18.07	1.816	0.579	2,395	2.816	1.487
4,59	4.66	323	119	0.42	0.046581	18.08	1.821	0.579	2,400	2.821	1,490
4.62	4.69	323	119	0.42	0.046875	18.08	1.821	0.579	2,400	2.821	1,490
4.64	4.71	324	119	0.42	0.047099	18.09	1.826	0.579	2,405	2.826	1,492
4.67	4.74	325	118	0.42	0.047383	18.09	1.831	0.582	2.413	2.831	1,497
4.69	4.76	325	118	0.42	0.047606	18.10	1.831	0.582	2.413	2.831	1,497
4.72	4.79	326	118	0.42	0.047901	18.10	1.836	0.582	2.418	2.836	1.500
4.74	4.81	327	118	0.42	0.048114	18.11	1.841	0.582	2.423	2.841	1.502
4.77	4.84	327	118	0.42	0.048408	18.11	1.840	0.582	2,422	2.840	1.502
4.79	4.86	328	118	0.42	0.048631	18.12	1.846	0.582	2.428	2.846	1.505
4.81	4.88	329	118	0.42	0.048845	18.12	1.851	0.582	2.433	2.851	1.507
4.84	4.91	329	118	0.42	0.049139	18.13	1.850	0.582	2.432	2.850	1.507
4.87	4.94	330	118	0.42	0.049433	18.13	1.855	0.582	2.437	2.855	1.510
4.89	4.96	331	118	0.42	0.049646	18.14	1.860	0.585	2,445	2.860	1.515
4.92	4.99	331	118	0.42	0.049941	18.14	1.860	0.585	2,445	2.860	1.515
4.94	5.02	332	118	0.42	0.050154	18.15	1.865	0.585	2.450	2.865	1.517
4.97	5.04	333	118	0.42	0.050448	18.15	1.870	0.585	2,455	2.870	1.520
4.99	5.07	334	118	0.42	0.050672	18.16	1.875	0.585	2.460	2.875	1.522
5.02	5.10	334	118	0.42	0.050956	18.16	1.875	0.585	2,459	2.875	1.522
5.05	5.13	335	118	0.42	0.051250	18.17	1.880	0.585	2.464	2.880	1.525
5.07	5.15	335	118	0.41	0.051474	18.17	1.879	0.588	2.467	2.879	1.527
5.09	5.17	335	118	0.41	0.051687	18.17	1.879	0.588	2.466	2.879	1.527
5.12	5.20	337	118	0.41	0.051981	18.18	1.890	0.588	2.477	2.890	1.532
5.14	5.22	337	118	0.41	0.052194	18.18	1.889	0.588	2.477	2.889	1.532
5.17	5.25	338	118	0.41	0.052489	18.19	1.894	0.588	2.482	2.894	1.535
5.20	5.28	338	118	0.41	0.052783	18.20	1.894	0.588	2.481	2.894	1.534
5.22	5.30	338	118	0.41	0.052996	18.20	1.893	0.590	2.483	2.893	1.537
5.25	5.33	339	118	0.41	0.053290	18.21	1.898	0.590	2.488	2.898	1.539
5.27	5.35	339	118	0.41	0.053514	18.21	1.898	0.590	2.488	2.898	1.539
5.29	5.37	340	118	0.41	0.053727	18.21	1.903	0.590	2.493	2.903	1.542
5.32	5.40	341	117	0.41	0.054021	18.22	1.908	0.593	2.501	2.908	1.547
5.35	5.43	341	118	0.41	0.054316	18.23	1.907	0.590	2,498	2.907	1.544
5.37	5.45	342	118	0.41	0.054529	18.23	1.912	0.590	2.503	2.912	1.547
5.40	5.48	342	117	0.41	0.054823	18.24	1.912	0.593	2.505	2.912	1.549
5.42	5.50	342	117	0.41	0.055047	18.24	1.911	0.593	2.504	2.911	1.549
5.45	5.53	343	117	0.41	0.055331	18.25	1.916	0.593	2.509	2.916	1.551
5.48	5,56	342	117	0.41	0.055625	18.25	1.910	0.593	2.503	2.910	1.548
5.50	5.58	343	117	0.40	0.055848	18.26	1.915	0.596	2.511	2.915	1.554
5.52	5.61	343	117	0.40	0.056062	18.26	1.915	0.596	2.511	2.915	1.553
5.55	5.64	344	117	0.40	0.056356	18.26	1.920	0.596	2.516	2.920	1.556
5.58	5.67	344	117	0.40	0.056650	18.27	1.919	0.596	2.515	2.919	1.556
5.60	5.69	344	117	0.40	0.056863	18.27	1.919	0.599	2.518	2.919	1.558
5.62	5.71	344	117	0.40	0.057087	18.28	1.918	0.599	2.517	2.918	1.558

	Deform.	Celda	Presiden	Incremento		Åres	Erfuerro	a'3	11	=1	Erfuerco
Deformación	Uniteria	Carva	de poros	deportos	Deform.	Correction	Dervindor	Efectivo	Electivo	Total	Promedio
(mm)	8	N	(kPa)	(kgl/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )
5.65	5.74	845	117	0.40	0.057371	18.28	1 923	0.599	2 5 2 2	2 923	1560
5.67	5.76	345	116	0.40	0.057594	18.29	1.923	0.601	2 5 2 4	2.923	1.563
5.70	5.79	845	116	0.40	0.057889	18.29	1 922	0.601	2 5 2 4	2 922	1 563
5.70	5.81	845	116	0.40	0.058102	18 30	1 922	0.601	2 5 2 8	2 922	1562
6.76	C 0.4	344	116	0.40	0.059366	10.00	1.037	0.601	3 6 3 6	2.027	1 545
5.78	5.87	346	116	0.40	0.058691	18 31	1.926	0.601	2 5 2 8	2 926	1 565
5.80	5.89	346	116	0.40	0.058904	18.31	1.926	0.604	2.530	2.926	1.567
5.83	5.91	346	116	0.40	0.059122	18.92	1.935	0.604	2.530	2 925	1567
5.85	5.94	847	116	0.40	0.059421	18 32	1 930	0.604	2 5 3 5	2 980	1 569
5.00	6.66	247	116	0.40	0.059635	19.99	1.020	0.604	2 6 2 4	1 990	1 568
5.90	5.99	347	116	0.39	0.059929	18 33	1.929	0.607	2 5 3 6	2 929	1 572
5.93	6.01	347	116	0.39	0.060142	18.94	1.929	0.607	2 5 3 6	2 929	1 571
C 6C	6.04	0.47	110	0.35	0.060436	10.04	1.039	0.607	3 6 3 6	2.029	1 671
5.93	6.07	347	116	0.35	0.060660	18.95	1.920	0.607	2,535	2.329	1.571
6.00	6.00	0.40	110	0.35	0.000000	10.00	1.000	0.007	3 6 4 3	2.020	1 6 7 6
6.00	6.49	240	110	0.33	0.000044	10.32	1.933	0.010	2,243	2.333	1,576
6.03	6.12	240	110	0.39	0.061467	10.30	1.932	0.610	2.342	2.332	1.576
0.00	0.15	240	110	0.35	0.001402	10.30	1.952	0.010	2.341	2.332	1.370
6.08	0.17	348	115	0.39	0.061675	18.37	1.951	0.613	2.544	2.951	1.578
0.11	0.20	243	115	0.35	0.061969	10.37	1.230	0.013	2.349	2.330	1.301
6.13	0.22	343	115	0.35	0.062193	10.30	1.930	0.613	2.340	2.330	1.500
6.15	6.24	543	115	0.39	0.062406	18.58	1.935	0.615	2.548	2.935	1.580
6.18	6.27	343	115	0.39	0.062/00	18.39	1.935	0.613	2.547	2.935	1.580
6.20	6.29	349	115	0.39	0.062913	18.39	1.934	0.613	2.547	2.934	1.580
6.23	6.32	349	115	0.38	0.063208	18.40	1.934	0.615	2.549	2.934	1.582
0.20	6.35	349	115	0.38	0.063502	18.40	1.933	0.615	2.548	2.953	1.582
6.28	6.37	349	115	0.38	0.063715	18.41	1.933	0.615	2.548	2.933	1.582
6.30	6.39	350	115	0.38	0.063938	18.41	1.938	0.618	2.556	2.938	1.587
6.33	6.42	350	115	0.38	0.064233	18.42	1.937	0.618	2.555	2.937	1.587
6.35	6.44	350	115	0.38	0.064446	18.42	1.937	0.618	2.555	2.937	1.586
6.38	6.47	350	115	0.38	0.064740	18.43	1.936	0.621	2.557	2.936	1.589
6.40	6.50	350	115	0.38	0.064953	18.43	1.936	0.621	2.557	2.936	1.589
6.42	6.52	350	115	0.38	0.065177	18.44	1.935	0.621	2.556	2.935	1.589
6.45	6.55	350	115	0.38	0.065471	18.44	1.934	0.621	2.555	2.934	1.588
6.47	6.57	352	114	0.38	0.065684	18.45	1.945	0.624	2.569	2.945	1.596
6.49	6.59	351	114	0.38	0.065908	18.45	1.939	0.624	2.563	2.939	1.593
6.52	6.62	352	114	0.38	0.066202	18.46	1.944	0.624	2.568	2.944	1.596
6.54	6.64	352	114	0.37	0.066415	18.46	1.944	0.627	2.570	2.944	1.598
6.57	6.67	352	114	0.37	0.066710	18.47	1.943	0.627	2.569	2.943	1.598
6.59	6.69	352	114	0.37	0.066923	18.47	1.943	0.627	2.569	2.943	1.598
6.62	6.72	352	114	0.37	0.067217	18.48	1.942	0.627	2.568	2.942	1.597
6.64	6.74	353	114	0.37	0.067440	18.48	1.947	0.629	2.576	2.947	1.603
6.67	6.77	353	114	0.37	0.067654	18.49	1.947	0.629	2.576	2.947	1.603
6.69	6.79	354	114	0.37	0.067948	18.49	1.951	0.629	2.581	2.951	1.605
6.72	6.82	353	114	0.37	0.068171	18.50	1.945	0.629	2.575	2.945	1.602
6.74	6.84	354	113	0.37	0.068384	18.50	1.951	0.632	2.583	2.951	1.607
6.77	6.87	354	113	0.37	0.068679	18.51	1.950	0.632	2.582	2.950	1.607
6.79	6.89	353	113	0.37	0.068892	18.51	1.944	0.632	2.576	2.944	1.604
6.81	6.91	354	113	0.37	0.069115	18.52	1.949	0.635	2.584	2.949	1.609
6.84	6.94	354	113	0.37	0.069410	18.52	1.948	0.635	2.583	2.948	1.609
6.86	6.96	354	113	0.37	0.069623	18.53	1.948	0.635	2.583	2.948	1.609
6.88	6.98	355	113	0.37	0.069846	18.53	1.953	0.635	2.588	2.953	1.611
6.91	7.01	354	113	0.36	0.070130	18.54	1.947	0.638	2.585	2.947	1.611

	Delares	Califa	Practice	Incremento		Åres	Entremo	13	11	=1	Erfuerzo
Deformación	Unitaria	Carga	de poros	deportos	Deform.	Correction	Derviedor	Bectivo	Bectivo	Total	Promedio
(mm)	5	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
6.93	7.04	355	113	0.36	0.070354	18.54	1.952	0.638	2.590	2.952	1.614
6.95	7.06	355	113	0.36	0.070577	18.54	1.951	0.638	2,589	2.951	1.613
6.98	7.09	355	113	0.36	0.070861	18.55	1.951	0.640	2,591	2.951	1.616
7.00	7.11	356	113	0.36	0.071084	18.55	1.956	0.640	2.596	2,956	1.618
7.02	7.13	225	118	0.36	0.071298	18.56	1.950	0.640	2 590	2 950	1615
7.05	7.15	355	112	0.36	0.071521	18.56	1.949	0.643	2.593	2.949	1.618
7.08	7.18	356	112	0.36	0.071815	18.57	1.954	0.643	2.598	2,954	1.620
7.10	7.20	356	112	0.36	0.072028	18.57	1.954	0.643	2,597	2.954	1.620
7.12	7.23	357	112	0.36	0.072252	18.58	1.959	0.643	2.602	2,959	1.623
7.15	7.25	357	112	0.36	0.072546	18.58	1.958	0.643	2.601	2.958	1.622
7.17	7.28	358	112	0.35	0.072759	18.59	1.963	0.646	2.609	2 963	1.628
7.19	7.30	358	112	0.35	0.072983	18.59	1.963	0.646	2.609	2.963	1.627
7.21	7.32	358	112	0.35	0.073196	18.60	1.962	0.646	2.608	2.962	1.627
7.24	7.35	358	112	0.35	0.073490	18.60	1.962	0.649	2.611	2.962	1.630
7.26	7 87	35.8	112	0.35	0.073703	18.61	1961	0.649	2.610	2 961	1629
7.28	7.39	358	112	0.35	0.073927	18.61	1.961	0.649	2.610	2.961	1.629
7.31	7.42	359	111	0.35	0.074221	18.62	1.966	0.652	2.617	2.966	1.634
7 33	7.44	359	111	0.35	0.074434	18.62	1965	0.652	2.617	2.965	1684
7 36	7.47	959	111	0.35	0.074657	18.63	1965	0.652	2.616	2.965	1634
7.38	7.50	359	111	0.35	0.074952	18.63	1.964	0.652	2.616	2.964	1.634
7.41	7.52	360	111	0.35	0.075165	18.64	1 969	0.654	2.624	2 969	1639
7.43	7.55	360	111	0.35	0.075459	18.64	1.968	0.654	2.623	2.968	1.639
7.46	7.57	361	111	0.34	0.075672	18.65	1.974	0.657	2.631	2 974	1644
7.48	7.60	361	111	0.34	0.075967	18.65	1973	0.657	2.630	2 973	1644
7.51	7.63	361	111	0.34	0.076261	18.66	1.972	0.657	2.629	2.972	1.643
7.54	7.66	362	111	0.34	0.076556	18.65	1 977	0.657	2.634	2 977	1646
7.56	7.68	363	111	0.34	0.076769	18.67	1982	0.660	2 642	2 982	1.651
7.59	7.70	363	111	0.34	0.076992	18.67	1.982	0.660	2.642	2 982	1651
7.62	7.74	363	111	0.34	0.077357	18.68	1981	0.660	2 641	2 981	1650
7.64	7.76	363	111	0.34	0.077571	18.68	1.980	0.660	2.640	2,980	1.650
7.67	7.79	364	110	0.34	0.077865	18.69	1 985	0.663	2.648	2 985	1655
7.69	7.81	364	110	0.34	0.078078	18 70	1985	0.663	2 647	2 985	1655
7.72	7.84	364	110	0.33	0.078373	18.70	1984	0.666	2.650	2 984	1658
7.75	7.87	364	110	0.33	0.078667	18.71	1983	0.666	2.649	2 983	1657
7.78	7.90	364	110	0.33	0.078961	18.71	1.983	0.666	2.648	2.983	1.657
7.80	7.92	364	110	0.33	0.079174	18 72	1 982	0.666	2.648	2 982	1657
7.83	7.95	364	110	0.33	0.079469	18.72	1.982	0.668	2.650	2.982	1.659
7.86	7 98	364	110	0.33	0.079763	18.73	1 981	0.668	2.649	2 981	1659
7.89	8.00	364	110	0.33	0.080047	18.74	1.980	0.668	2.649	2,980	1.659
7.91	8.03	364	110	0.33	0.080271	18.74	1.980	0.671	2.651	2,980	1661
7.94	8.06	365	110	0.33	0.080565	18.75	1 985	0.671	2.656	2.985	1664
7.96	8.08	364	110	0.33	0.080778	18.75	1 979	0.671	2.650	2 979	1661
7.99	8.11	225	109	0.33	0.081073	18.75	1984	0.674	2.658	2 984	1666
8.02	8.14	225	109	0.33	0.081367	18.76	1983	0.674	2.657	2 983	1665
8.04	8.17	365	109	0.33	0.081651	18.77	1.982	0.674	2,656	2,982	1,665
8.07	8,19	365	109	0.33	0.081874	18 77	1,982	0.674	2,656	2,982	1665
8.10	8.22	364	109	0.33	0.082169	18.78	1.976	0.674	2.650	2.976	1.662
8.12	8,25	365	109	0.32	0.082453	18.78	1.981	0,677	2,657	2,981	1.667
8.16	8,28	365	109	0.32	0.082818	18.79	1,980	0.677	2,657	2,980	1.667
8.19	8,31	367	109	0.32	0.083113	18.80	1,990	0.679	2,670	2,990	1.675
8.71	8.33	367	109	0.82	0.083336	18.80	1 990	0.679	2,669	2 990	1674
8.24	8.36	366	109	0.32	0.083620	18.81	1.984	0.679	2.663	2.984	1.671

	Deform.	Celda	Presión	Incremento		Åres	Infuerzo	13	11	#1	Erfuerzo
Deformación	Unitaria	Cares	de poros	deportos	Deform.	Correction	Dervindor	Electivo	Dectivo	Total	Promedio
(mm)	5	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(lat/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
8.26	8.38	366	108	0.32	0.083844	18.81	1.983	0.682	2.665	2.983	1.674
8,29	8.41	365	109	0.32	0.084138	18.82	1.977	0.679	2.657	2.977	1.668
8.81	8.44	365	108	0.32	0.084351	18.82	1 977	0.682	2.659	2 977	1.671
8 34	8.46	365	108	0.32	0.084646	18.83	1 976	0.682	2.658	2 976	1.670
8 37	8.49	345	108	0.32	0.084940	18.84	1.975	0.682	2658	2 975	1.670
8.39	8.50	365	108	0.31	0.085153	18.84	1 975	0.685	2,660	2 975	1.673
8.41	8 54	364	108	0.31	0.085376	18.84	1 969	0.685	2.654	2 969	1.670
8.44	8.57	364	108	0.31	0.085661	18.85	1 968	0.685	2653	2 968	1.669
8.46	8.59	365	108	0.31	0.085884	18.85	1 973	0.688	2.661	2 973	1675
0.40	9.61	26.6	108	0.21	0.096107	10.00	1.067	0.699	3 655	3.967	1.673
8.51	8.64	365	108	0.31	0.086391	18.87	1.997	0.688	2,650	2 972	1.674
8.54	8.67	365	108	0.31	0.085585	18.87	1.977	0.691	2.668	2 977	1.679
0.54	0.00	527	4760	0.04	0.000000	10.00	4.000	0.004	5 2 7 5	3.003	1 2 0 5
0.00	0.00	307	100	0.31	0.062163	10.00	1.002	0.001	2.073	2.302	1.002
0.00	0.74	200	100	0.31	0.007133	10.00	1.307	0.001	2.077	2.307	1.004
0.01	0.74	307	107	0.31	0.007630	10.02	1.001	0.000	2.074	2.301	1.009
0.03	0.70	307	107	0.51	0.007050	10.02	1.000	0.003	2.074	2.300	1.009
0.00	0.79	300	107	0.31	0.007653	10.90	1.974	0.693	2.000	2.3/4	1.001
8.68	8.81	366	107	0.31	0.088148	18.90	1.974	0.693	2.667	2.974	1.680
8.71	8.84	363	107	0.31	0.088351	18.91	1.968	0.693	2.001	2.968	1.677
8.73	8.87	365	107	0.30	0.088655	18.91	1.967	0.696	2.004	2.957	1.680
8.76	8.89	365	107	0.30	0.088858	18.92	1.967	0.696	2.663	2.967	1.680
8.78	8.91	365	107	0.30	0.089092	18.92	1.955	0.695	2.663	2.966	1.679
8.80	8.93	365	107	0.30	0.089315	18.93	1.966	0.699	2.665	2.966	1.682
8.83	8.96	365	107	0.30	0.089599	18.93	1.965	0.699	2.664	2.965	1.682
8.85	8.98	365	107	0.30	0.089822	18.94	1.965	0.699	2.664	2.965	1.681
8.87	9.00	364	107	0.30	0.090036	18.94	1.959	0.699	2.658	2.959	1.678
8.89	9.03	364	105	0.30	0.090259	18.95	1.959	0.702	2.660	2.959	1.681
8.92	9.06	364	106	0.30	0.090553	18.95	1.958	0.702	2.660	2.958	1.681
8.94	9.08	364	106	0.30	0.090766	18.96	1.957	0.702	2.659	2.957	1.680
8.97	9.11	364	106	0.30	0.091061	18.96	1.957	0.702	2.659	2.957	1.680
8.99	9.13	364	105	0.30	0.091284	18.97	1.956	0.702	2.658	2.956	1.680
9.01	9.15	364	106	0.30	0.091497	18.97	1.956	0.705	2.660	2.956	1.682
9.04	9.18	364	105	0.30	0.091792	18.98	1.955	0.705	2.660	2.955	1.682
9.06	9.20	364	105	0.29	0.092005	18.98	1.955	0.707	2.662	2.955	1.685
9.09	9.23	364	106	0.30	0.092299	18.99	1.954	0.705	2.659	2.954	1.682
9.12	9.25	364	105	0.29	0.092522	18.99	1.954	0.707	2.661	2.954	1.684
9.14	9.28	364	106	0.29	0.092807	19.00	1.953	0.710	2.663	2.953	1.687
9.17	9.30	364	106	0.29	0.093030	19.00	1.953	0.707	2.660	2.953	1.684
9.19	9.32	364	105	0.29	0.093243	19.01	1.952	0.710	2.662	2.952	1.686
9.22	9.35	364	105	0.29	0.093537	19.01	1.951	0.710	2.662	2.951	1.686
9.24	9.38	364	105	0.29	0.093761	19.02	1.951	0.713	2.664	2.951	1.688
9.27	9.40	365	106	0.29	0.094045	19.02	1.956	0.710	2.666	2.956	1.688
9.29	9,43	366	105	0.29	0.094258	19.03	1.961	0.713	2.674	2.961	1.693
9.32	9.46	366	105	0.29	0.094563	19.04	1.960	0.713	2.673	2.960	1.693
9.34	9.48	366	105	0.28	0.094776	19.04	1.959	0.716	2.675	2.959	1.695
9.37	9.51	366	105	0.28	0.095070	19.05	1.959	0.716	2.675	2.959	1.695
9.39	9.53	367	105	0.28	0.095294	19.05	1.964	0.716	2.679	2.964	1.698
9.42	9.56	367	105	0.28	0.095578	19.05	1.963	0.716	2.679	2.963	1.697
9.44	9.58	368	105	0.28	0.095801	19.05	1.968	0.719	2.686	2.968	1.702
9.47	9.61	368	105	0.28	0.096095	19.07	1.967	0.719	2.686	2.967	1.702
9.49	9,63	368	105	0.28	0.096309	19.07	1.967	0.719	2.685	2.967	1.702
9.51	9.65	369	105	0.28	0.096532	19.08	1.972	0.719	2.690	2.972	1.704

	Deform.	Celda	Presión	Incremento		Åres	Infuerro	13	a'1	=1	Erfuerzo
Deformación	Unitaria	Carga	de poros	deporos	Deform.	Corregida	Derviedor	Electivo	Efectivo	Total	Promedio
(mm)		N	(kPa)	(kg!/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm²)	(kgt/cm <sup>2</sup> )
9.54	9.68	369	105	0.28	0.095816	19.08	1.971	0.721	2.692	2.971	1.707
9.57	9.71	369	105	0.28	0.097110	19.09	1.970	0.721	2.692	2.970	1.707
9.59	9.73	370	105	0.28	0.097334	19.09	1.975	0.721	2.697	2.975	1.709
9.62	9.76	370	104	0.28	0.097618	19.10	1.975	0.724	2.699	2.975	1.711
9.65	9.79	371	104	0.28	0.097912	19.11	1.979	0.724	2.703	2.979	1.714
9.67	9.81	371	104	0.28	0.098136	19.11	1.979	0.724	2.703	2.979	1.714
9.69	9.83	371	104	0.27	0.098349	19.12	1.978	0.727	2.705	2.978	1.716
9.72	9.86	372	104	0.27	0.098643	19.12	1.983	0.727	2.710	2.983	1.718
9.74	9.89	372	104	0.27	0.098867	19.13	1.983	0.727	2.709	2.983	1.718
9.77	9.92	373	104	0.27	0.099151	19.13	1.987	0.727	2.714	2.987	1.721
9.77	9.92	374	104	0.27	0.099151	19.13	1.993	0.727	2.720	2.993	1.723
9.82	9.97	374	104	0.27	0.099668	19.14	1.991	0.730	2.721	2.991	1.725
9.85	10.00	374	104	0.27	0.099953	19.15	1.991	0.730	2.721	2.991	1.725
9.87	10.02	374	104	0.27	0.100176	19.15	1.990	0.730	2.720	2.990	1.725
9.90	10.05	375	104	0.27	0.100470	19.16	1.995	0.730	2.725	2.995	1.727
9.92	10.07	375	103	0.27	0.100683	19.17	1.995	0.732	2.727	2.995	1.730
9.95	10.10	375	103	0.27	0.100978	19.17	1.994	0.732	2.726	2.994	1.729
9.98	10.13	376	103	0.26	0.101272	19.18	1.999	0.735	2.734	2.999	1.735
10.00	10.15	375	103	0.26	0.101485	19.18	1.993	0.735	2.728	2.993	1.732
10.02	10.17	376	103	0.26	0.101709	19.19	1.998	0.735	2.733	2.998	1.734
10.05	10.20	376	103	0.26	0.101993	19.19	1.997	0.735	2.732	2.997	1.734
10.08	10.23	376	103	0.26	0.102287	19.20	1.996	0.735	2.732	2.996	1.733
10.06	10.21	377	103	0.26	0.102074	19.19	2.002	0.735	2.737	3.002	1.736
10.13	10.28	376	103	0.26	0.102795	19.21	1.995	0.738	2.733	2.995	1.736
10.15	10.30	377	103	0.26	0.103018	19.22	2.000	0.741	2.741	3.000	1.741
10.18	10.33	377	103	0.26	0.103312	19.22	1.999	0.741	2.740	2.999	1.740
10.21	10.36	378	103	0.26	0.103597	19.23	2.004	0.741	2.745	3.004	1.743
10.23	10.38	378	103	0.26	0.103820	19.23	2.004	0.741	2.744	3.004	1.743
10.26	10.41	378	102	0.26	0.104114	19.24	2.003	0.744	2.746	3.003	1.745
10.28	10.43	378	102	0.26	0.104328	19.24	2.002	0.744	2.746	3.002	1.745
10.31	10.46	378	102	0.26	0.104622	19.25	2.002	0.744	2.745	3.002	1.744
10.34	10.49	379	102	0.26	0.104916	19.26	2.006	0.744	2.750	3.006	1.747
10.36	10.51	379	102	0.25	0.105129	19.26	2.006	0.746	2.752	3.006	1.749
10.39	10.54	379	102	0.25	0.105424	19.27	2.005	0.746	2.752	3.005	1.749
10.35	10.51	379	102	0.26	0.105058	19.26	2.006	0.744	2.750	3.006	1.747
10.44	10.59	378	102	0.25	0.105931	19.28	1.999	0.746	2.745	2.999	1.746
10.47	10.62	379	102	0.25	0.106226	19.28	2.003	0.749	2.753	3.003	1.751
10.49	10.64	379	102	0.25	0.106449	19.29	2.003	0.749	2.752	3.003	1.751
10.52	10.67	379	102	0.25	0.106733	19.29	2.002	0.749	2.751	3.002	1.750
10.54	10.70	379	102	0.25	0.106957	19.30	2.002	0.749	2.751	3.002	1.750
10.57	10.73	379	102	0.25	0.107251	19.31	2.001	0.749	2.750	3.001	1.750
10.59	10.75	379	101	0.25	0.107464	19.31	2.001	0.752	2.753	3.001	1.752
10.61	10.77	378	101	0.25	0.107687	19.32	1.995	0.752	2.747	2.995	1.749
10.64	10.80	378	101	0.25	0.107972	19.32	1.994	0.752	2.746	2.994	1.749
10.67	10.83	378	101	0.25	0.108266	19.33	1.994	0.755	2.748	2.994	1.752
10.69	10.85	378	101	0.25	0.108489	19.33	1.993	0.755	2.748	2.993	1.751
10.67	10.83	378	101	0.25	0.108266	19.33	1.994	0.755	2.748	2.994	1.752
10.75	10.91	377	101	0.25	0.109068	19.35	1.987	0.755	2.741	2.987	1.748
10.77	10.93	378	101	0.24	0.109291	19.35	1.991	0.758	2.749	2.991	1.753
10.80	10.96	377	101	0.24	0.109575	19.36	1.985	0.758	2.743	2.985	1.750
10.82	10.98	377	101	0.24	0.109799	19.36	1.985	0.758	2.742	2.985	1.750
10.85	11.01	376	101	0.24	0.110093	19.37	1.979	0.758	2.736	2.979	1.747

	Deform	Califa	Presiden	Incremento		Åren	Estuerco	63	61	:1	Enfuerzo
Deformación	Unitaria	Cargo	de poros	deportos	Deform.	Cornerida	Dervindor	Dectivo	Electivo	Total	Promedio
(mm)	5	N	(kPa)	(kgt/cm <sup>2</sup> )	Uniteria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
10.87	11.03	376	101	0.24	0.110306	19.37	1.978	0.758	2.736	2.978	1.747
10.90	11.06	376	101	0.24	0.110601	19.38	1.978	0.758	2.735	2.978	1.746
10.93	11.09	376	101	0.24	0.110895	19.39	1.977	0.760	2,737	2.977	1,749
10.95	11.11	375	101	0.24	0.111108	19.39	1.971	0.760	2.732	2.971	1.746
10.98	11.14	375	101	0.24	0.111402	19.40	1.971	0.760	2.731	2.971	1,746
11.00	11.16	375	100	0.24	0.111626	19.40	1.970	0.763	2.733	2.970	1.748
11.03	11.19	375	100	0.24	0.111910	19.41	1.970	0.763	2.733	2.970	1.748
11.05	11.21	375	100	0.24	0.112133	19.41	1.969	0.763	2.732	2.969	1.748
11.08	11.24	374	100	0.24	0.112428	19.42	1.963	0.763	2.726	2.963	1.745
11.10	11.26	375	100	0.24	0.112641	19.42	1.968	0.763	2.731	2.968	1.747
11.13	11.29	374	100	0.24	0.112935	19.43	1.962	0.763	2.725	2.962	1.744
11.15	11.31	374	100	0.23	0.113148	19.43	1.962	0.766	2.728	2.962	1.747
11.18	11.34	373	100	0.23	0.113443	19.44	1.956	0.766	2.722	2.956	1.744
11.21	11.37	373	100	0.23	0.113737	19.45	1.955	0.766	2.721	2.955	1.743
11.23	11.40	372	100	0.23	0.113950	19.45	1.949	0.766	2.715	2.949	1.741
11.25	11.42	372	100	0.23	0.114174	19.46	1.949	0.769	2.718	2.949	1.743
11.28	11.45	372	100	0.23	0.114468	19.46	1.948	0.769	2.717	2.948	1.743
11.31	11.48	372	100	0.23	0.114752	19.47	1.948	0.769	2.716	2.948	1.743
11.33	11.50	371	100	0.23	0.114975	19.47	1.942	0.769	2.711	2.942	1.740
11.36	11.53	371	99	0.23	0.115270	19.48	1.941	0.771	2.713	2.941	1.742
11.38	11.55	371	99	0.23	0.115483	19.49	1.941	0.771	2.712	2.941	1.742
11.41	11.58	371	99	0.23	0.115777	19.49	1.940	0.771	2.712	2.940	1.742
11.43	11.60	371	99	0.23	0.116001	19.50	1.940	0.771	2.711	2.940	1.741
11.46	11.63	370	99	0.23	0.116285	19.50	1.934	0.771	2.705	2.934	1.738
11.48	11.65	370	99	0.23	0.116508	19.51	1.933	0.771	2.705	2.933	1.738
11.51	11.68	370	99	0.23	0.116803	19.51	1.933	0.771	2.704	2.933	1.738
11.53	11.70	371	99	0.23	0.117016	19.52	1.937	0.774	2.712	2.937	1.743
11.56	11.73	370	99	0.23	0.117310	19.53	1.932	0.774	2.706	2.932	1.740
11.58	11.75	371	99	0.23	0.117523	19.53	1.936	0.774	2.711	2.936	1.742
11.61	11.78	371	99	0.23	0.117818	19.54	1.936	0.774	2.710	2.936	1.742
11.63	11.80	371	99	0.23	0.118041	19.54	1.935	0.774	2.709	2.935	1.742
11.65	11.83	371	99	0.23	0.118254	19.55	1.935	0.774	2.709	2.935	1.742
11.67	11.85	370	99	0.22	0.118477	19.55	1.929	0.777	2.706	2.929	1.742
11.69	11.87	371	99	0.22	0.118691	19.56	1.934	0.777	2.711	2.934	1.744
11.72	11.89	371	99	0.22	0.118914	19.56	1.933	0.777	2.710	2.933	1.744
11.74	11.91	371	99	0.22	0.119127	19.57	1.933	0.777	2.710	2.933	1.743
11.76	11.94	371	99	0.22	0.119350	19.57	1.932	0.780	2.712	2.932	1.746
11.79	11.96	371	99	0.22	0.119645	19.58	1.932	0.777	2.709	2.932	1.743
11.82	11.99	371	99	0.22	0.119929	19.58	1.931	0.780	2.711	2.981	1.745
11.84	12.02	370	99	0.22	0.120223	19.59	1.925	0.780	2.705	2.925	1.742
11.87	12.04	370	99	0.22	0.120447	19.60	1.925	0.780	2.705	2.925	1.742
11.89	12.07	370	99	0.22	0.120731	19.60	1.924	0.780	2.704	2.924	1.742
11.92	12.10	369	99	0.22	0.120954	19.61	1.918	0.780	2.698	2.918	1.739
11.94	12.12	369	99	0.22	0.121167	19.61	1.918	0.780	2.698	2.918	1.739
11.97	12.15	369	98	0.22	0.121462	19.62	1.917	0.783	2.700	2.917	1.741
11.99	12.17	369	98	0.22	0.121685	19.62	1.917	0.783	2.699	2.917	1.741
12.02	12.20	369	98	0.22	0.121979	19.63	1.916	0.783	2.699	2.916	1.741
12.04	12.22	369	98	0.22	0.122193	19.63	1.916	0.783	2.698	2.916	1.740
12.06	12.24	369	98	0.22	0.122416	19.64	1.915	0.783	2.698	2.915	1.740
12.08	12.26	369	98	0.22	0.122629	19.64	1.915	0.783	2.697	2.915	1.740
12.11	12.29	369	98	0.21	0.122923	19.65	1.914	0.785	2.700	2.914	1.742
12.13	12.31	368	98	0.21	0.123137	19.66	1.908	0.785	2.694	2.908	1.740

	Deform.	Celda	Presión	Incremento		Åres	Estuerro	13	11	=1	Erfuerzo
Deformación	Unitaria	Cargo	de poros	deportos	Deform.	Correction	Dervindor	Efectivo	Efectivo	Total	Promedio
(mm)		N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(log1/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
12.15	12.34	368	98	0.21	0.123360	19.66	1.908	0.785	2.693	2.908	1,739
12.18	12.36	368	98	0.21	0.123583	19.67	1.908	0.785	2.693	2.908	1.739
12.20	12.38	368	98	0.21	0.123796	19.67	1.907	0.788	2,695	2.907	1.742
12.23	12.41	368	98	0.21	0.124091	19.68	1.906	0.785	2.692	2,906	1,739
12.25	12.43	367	98	0.21	0.124304	19.68	1.901	0.788	2.689	2 901	1,739
12.27	12.45	367	98	0.21	0.124527	19.69	1.900	0.788	2.688	2,900	1,738
12.29	12.47	367	98	0.21	0.124740	19.69	1.900	0.788	2.688	2.900	1.738
12.32	12.50	366	98	0.21	0.125035	19.70	1.894	0.788	2.682	2,894	1.735
12.34	12.53	366	98	0.21	0.125258	19.70	1.894	0.788	2.682	2.894	1.735
12.36	12.55	366	98	0.21	0.125471	19.71	1.893	0.788	2.681	2.893	1,735
12.39	12.58	366	98	0.21	0.125766	19.72	1.892	0.791	2.683	2.892	1.737
12.41	12.60	366	98	0.21	0.125989	19.72	1.892	0.791	2.683	2.892	1.737
12.43	12.62	366	98	0.21	0.126202	19.72	1.891	0.791	2.682	2.891	1.737
12.46	12.65	366	98	0.21	0.126496	19.73	1.891	0.791	2.682	2.891	1.736
12.48	12.67	366	98	0.21	0.126710	19.74	1.890	0.791	2.681	2.890	1,736
12.51	12.69	367	97	0.21	0.126933	19.74	1.895	0.794	2.689	2.895	1.741
12.53	12.72	367	97	0.21	0.127227	19.75	1.894	0.794	2.688	2.894	1.741
12.56	12.75	367	97	0.21	0.127511	19.75	1.894	0.794	2.688	2.894	1.741
12.59	12.78	367	97	0.21	0.127806	19.76	1.893	0.794	2.687	2.893	1.740
12.61	12.80	367	97	0.21	0.128029	19.77	1.893	0.794	2.686	2.893	1.740
12.64	12.83	366	97	0.21	0.128313	19.77	1.887	0.794	2.681	2.887	1.737
12.66	12.85	367	97	0.20	0.128537	19.78	1.892	0.797	2.688	2.892	1.742
12.69	12.88	367	97	0.20	0.128831	19.78	1.891	0.797	2.687	2.891	1.742
12.71	12.90	367	97	0.20	0.129044	19.79	1.890	0.797	2.687	2.890	1.742
12.74	12.93	366	97	0.20	0.129339	19.80	1.885	0.797	2.681	2.885	1.739
12.77	12.96	366	97	0.20	0.129633	19.80	1.884	0.797	2.681	2.884	1.739
12.79	12.98	366	97	0.20	0.129846	19.81	1.884	0.799	2.683	2.884	1.741
12.82	13.01	366	97	0.20	0.130140	19.81	1.883	0.799	2.682	2.883	1.741
12.85	13.04	367	97	0.20	0.130435	19.82	1.887	0.799	2.687	2.887	1.743
12.87	13.06	367	97	0.20	0.130648	19.83	1.887	0.799	2.686	2.887	1.743
12.90	13.09	367	97	0.20	0.130942	19.83	1.886	0.799	2.686	2.886	1.743
12.92	13.12	367	97	0.20	0.131166	19.84	1.886	0.799	2.685	2.886	1.742
12.95	13.14	367	96	0.20	0.131450	19.84	1.885	0.802	2.687	2.885	1.745
12.98	13.17	367	97	0.20	0.131744	19.85	1.885	0.799	2.684	2.885	1.742
13.00	13.20	367	96	0.20	0.131968	19.86	1.884	0.802	2.686	2.884	1.744
13.03	13.23	367	96	0.20	0.132252	19.86	1.884	0.802	2.686	2.884	1.744
13.06	13.25	368	96	0.20	0.132546	19.87	1.888	0.802	2.690	2.888	1.746
13.09	13.29	368	96	0.20	0.132912	19.88	1.887	0.802	2.689	2.887	1.746
13.12	13.31	368	96	0.20	0.133125	19.88	1.887	0.805	2.692	2.887	1.748
13.14	13.34	368	96	0.20	0.133419	19.89	1.886	0.802	2.688	2.886	1.745
13.17	13.37	368	96	0.20	0.133713	19.90	1.885	0.802	2.688	2.885	1.745
13.19	13.39	366	96	0.20	0.133927	19.90	1.875	0.805	2.680	2.875	1.742
13.22	13.42	366	96	0.20	0.134221	19.91	1.874	0.805	2.679	2.874	1.742
13.25	13.44	366	96	0.20	0.134444	19.91	1.874	0.805	2.679	2.874	1.742
13.27	13.47	365	96	0.20	0.134739	19.92	1.868	0.805	2.673	2.868	1.739
13.30	13.50	365	96	0.20	0.134952	19.92	1.867	0.805	2.672	2.867	1.739
13.32	13.52	364	96	0.20	0.135246	19.93	1.862	0.805	2.667	2.862	1.736
13.35	13.55	363	96	0.20	0.135541	19.94	1.856	0.805	2.661	2.856	1.733
13.37	13.58	362	96	0.20	0.135754	19.94	1.850	0.805	2.655	2.850	1.730
13.40	13.60	361	96	0.19	0.136048	19.95	1.845	0.808	2.652	2.845	1.730
13.42	13.63	361	96	0.19	0.136261	19.95	1.844	0.808	2.652	2.844	1.730
13.45	13.66	360	96	0.19	0.136556	19.96	1.838	0.808	2.646	2.838	1.727

	Deferm	Calda	Presiden.	Incremento		Åren	Lafeerzo.	13	- 11	:1	Effuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Correctide	Derviedor	Electivo	Electivo	Total	Promedio
(mm)	56	N	(kPa)	(ket/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kat/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(logf/cm <sup>2</sup> )	(ket/cm <sup>2</sup> )
13.48	19.68	360	96	0.19	0.136850	19.97	1,838	0.808	2.645	2 838	1 7 2 7
13.50	13.71	35.8	96	0.19	0.132063	19.97	1.827	0.808	2.635	2 827	1 721
10 60	19.74	357	06	0.19	0.107057	10.02	1.971	0.909	2,620	3,931	1 718
12 55	19.77	307	90	0.19	0.107657	10.00	1.916	0.000	2,622	2.916	1.716
13 60	10.70	320	06	0.10	0.107065	10.00	1.010	0.000	3 6 1 9	2,610	1 712
12.50	13.79	353	30	0.19	0.122150	10.00	1.010	0.000	2,010	2,610	1.713
13.63	13.84	353	96	0.19	0.138383	20.00	1 799	0.808	2.607	2 299	1 202
10.00	10.07	303	00	0.10	0.130503	20.00	4 700	0.000	3.000	3,769	1 202
12.00	13.07	353	30	0.19	0.120007	20.01	1.790	0.910	2.000	2,730	1 200
13.69	13.30	333	30	0.13	0.130301	20.02	4.363	0.000	2.000	2.730	1.709
13.72	13.33	353	30	0.15	0.139250	20.02	1.797	0.000	2.005	2.797	1.700
13.73	13.34	353	30	0.19	0.133336	20.05	1.797	0.810	2.007	2.797	1,709
13.70	13.37	332	30	0.13	0.139092	20.00	4.794	0.010	2.002	2.731	1.700
13.70	13.39	353	30	0.15	0.139903	20.04	1.790	01810	2.000	2,750	1.705
15.61	14.02	352	30	0.15	0.140200	20.05	1.790	01810	2.500	2.750	1.705
13.83	14.04	353	96	0.19	0.140423	20.05	1.795	0.810	2.605	2.795	1.708
13.86	14.07	354	36	0.19	0.140/07	20.05	1.799	0.810	2.610	2,799	1.710
13.89	14.10	354	30	0.19	0.141002	20.05	1./98	0.810	2.609	2.798	1.710
13.91	14.12	354	96	0.19	0.141225	20.07	1.798	0.810	2.608	2.798	1.709
13.94	14.15	353	96	0.19	0.141519	20.08	1.792	0.810	2.603	2.792	1.707
13.96	14.17	353	30	0.19	0.141/32	20.08	1.792	0.810	2.602	2.792	1.706
13.99	14.20	353	96	0.19	0.141956	20.09	1.791	0.810	2.602	2.791	1.705
14.01	14.72	352	96	0.19	0.142169	20.09	1.785	0.810	2.595	2.786	1.703
14.04	14.25	352	96	0.19	0.142463	20.10	1.785	0.810	2.596	2.785	1.703
14.06	14.27	352	96	0.19	0.142676	20.10	1.785	0.810	2.595	2.785	1.703
14.08	14.29	352	96	0.19	0.142900	20.11	1.784	0.810	2.595	2.784	1.703
14.11	14.32	352	96	0.19	0.143194	20.12	1.784	0.810	2.594	2.784	1.702
14.14	14.35	351	96	0.19	0.143478	20.12	1.778	0.810	2.589	2.778	1.700
14.16	14.37	352	96	0.19	0.143702	20.13	1.783	0.810	2.593	2.783	1.702
14.18	14.39	351	95	0.19	0.143925	20.13	1.777	0.813	2.590	2.777	1.702
14.20	14.41	350	96	0.19	0.144138	20.14	1.772	0.810	2.582	2.772	1.695
14.23	14.44	350	95	0.19	0.144432	20.15	1.771	0.813	2.584	2.771	1.699
14.25	14.46	350	95	0.19	0.144646	20.15	1.771	0.813	2.584	2.771	1.699
14.27	14.49	350	95	0.19	0.144869	20.16	1.770	0.813	2.583	2.770	1.698
14.30	14.52	350	96	0.19	0.145163	20.16	1.770	0.810	2.580	2.770	1.695
14.32	14.54	350	96	0.19	0.145376	20.17	1.769	0.810	2.580	2,769	1.695
14.35	14.57	349	95	0.19	0.145671	20.17	1.763	0.813	2.577	2.763	1.695
14.37	14.59	349	95	0.19	0.145884	20.18	1.763	0.813	2.576	2.763	1.695
14.39	14.61	349	95	0.19	0.146107	20.18	1.763	0.813	2.576	2.763	1.695
14.42	14.64	349	- 95	0.19	0.146402	20.19	1.762	0.813	2.575	2.762	1.694
14.45	14.67	350	95	0.19	0.146686	20.20	1.766	0.813	2.580	2.766	1.695
14.47	14.69	350	95	0.19	0.146909	20.20	1.766	0.813	2.579	2.766	1.695
14.50	14.72	350	95	0.19	0.147204	20.21	1.765	0.813	2.579	2.765	1.696
14.52	14.74	351	- 95	0.19	0.147417	20.22	1.770	0.813	2.583	2.770	1.698
14.55	14.77	350	95	0.19	0.147711	20.22	1.764	0.813	2.578	2.764	1.695
14.57	14.79	351	95	0.19	0.147934	20.23	1.769	0.813	2.582	2.769	1.698
14.60	14.82	350	95	0.19	0.148219	20.23	1.763	0.813	2.576	2.763	1.695
14.63	14.85	350	95	0.19	0.148513	20.24	1.763	0.813	2.576	2.763	1.695
14.65	14.87	351	95	0.19	0.148736	20.25	1.767	0.813	2.580	2.767	1.697
14.68	14.90	351	95	0.19	0.149020	20.25	1.767	0.813	2.580	2.767	1.697
14.71	14.93	351	- 95	0.19	0.149315	20.26	1.766	0.813	2.579	2.766	1.696
14.73	14.95	351	- 95	0.19	0.149538	20.27	1.766	0.813	2.579	2.766	1.695
14.75	14.98	352	95	0.19	0.149751	20.27	1.770	0.813	2.583	2.770	1.698

	Deform.	Celda	Presión	Incremento		Årea	Estuerzo	a'3	a'1	:1	Erfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregide	Dervision	Efectivo	Efectivo	Total	Promedio
(mm)	5	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(hel/cm <sup>2</sup> )
14.78	15.00	352	95	0.19	0.149975	20.28	1.770	0.813	2.583	2,770	1.698
14.80	15.03	352	95	0.18	0.150259	20.28	1.769	0.816	2.585	2.769	1.701
14.83	15.06	353	95	0.19	0.150553	20.29	1.773	0.813	2.587	2.773	1.700
14.85	15.08	353	95	0.19	0.150777	20.30	1.773	0.813	2.586	2.773	1.700
14.88	15.11	353	95	0.18	0.151061	20.30	1.772	0.816	2.588	2.772	1.702
14.91	15.14	353	95	0.19	0.151355	20.31	1.772	0.813	2.585	2.772	1.699
14.93	15.16	353	- 95	0.19	0.151578	20.31	1.771	0.813	2.585	2.771	1.699
14.96	15.19	353	95	0.18	0.151863	20.32	1.771	0.816	2.587	2.771	1.701
14.99	15.22	353	95	0.18	0.152157	20.33	1.770	0.816	2.586	2.770	1.701
15.01	15.24	354	95	0.18	0.152380	20.33	1.775	0.816	2.591	2.775	1.703
15.04	15.27	354	95	0.18	0.152665	20.34	1.774	0.816	2.590	2.774	1.703
15.07	15.30	354	95	0.18	0.152959	20.35	1.773	0.816	2.589	2.773	1.703
15.09	15.32	354	95	0.18	0.153182	20.35	1.773	0.816	2.589	2.773	1.703
15.12	15.35	354	- 95	0.18	0.153477	20.36	1.772	0.816	2.588	2.772	1.702
15.14	15.37	355	95	0.18	0.153690	20.37	1.777	0.816	2.593	2.777	1.705
15.17	15.40	355	95	0.18	0.153984	20.37	1.776	0.816	2.592	2.776	1.704
15.19	15.42	356	95	0.18	0.154197	20.38	1.781	0.816	2.597	2.781	1.706
15.22	15.45	357	95	0.18	0.154492	20.38	1.785	0.816	2.601	2.785	1.709
15.24	15.47	357	95	0.18	0.154715	20.39	1.785	0.816	2.601	2.785	1.708
15.27	15.50	357	95	0.18	0.154999	20.40	1.784	0.816	2.600	2.784	1.708
15.29	15.52	357	95	0.18	0.155222	20.40	1.784	0.816	2.600	2.784	1.708
15.32	15.55	357	95	0.18	0.155517	20.41	1.783	0.819	2.602	2.783	1.710
15.35	15,58	357	95	0.18	0.155801	20.42	1,782	0.816	2.599	2,782	1,707
15.37	15.60	357	95	0.18	0.156024	20.42	1,782	0.816	2.598	2,782	1,707
15.40	15.63	358	95	0.18	0.156319	20.43	1,786	0.819	2.605	2,786	1.712
15.42	15.65	357	95	0.18	0.156532	20.43	1 781	0.816	2 597	2 781	1 202
15.44	15.68	358	95	0.18	0.156755	20.44	1,785	0.816	2.601	2,785	1,709
15.47	15 70	358	95	0.18	0.152039	20.45	1.785	0.816	2 601	2 785	1 708
15.50	15.73	358	95	0.18	0.157334	20.45	1,784	0.816	2.600	2.784	1,708
15.52	15.76	358	95	0.18	0.157557	20.46	1,784	0.816	2.600	2,784	1,708
15 55	15.78	35.8	95	018	0.157841	20.47	1 783	0.819	2 602	2 783	1 710
15.58	15.81	358	95	0.18	0.158136	20.47	1 783	0.816	2 599	2 783	1 202
15.60	15.04	950	96	0.19	0.159350	30.48	1 793	0.919	3,601	3 793	1 710
15.63	15.86	353	95	0.18	0.158643	20.49	1.781	0.816	2 597	2 781	1 202
15.65	15.89	357	95	0.18	0.158867	20.49	1.776	0.819	2 595	2 776	1 202
15.69	15.00	267	96	0.18	0.150161	30.60	1 775	0.919	2 504	3 775	1 307
15.20	15.94	357	95	0.18	0.159874	20.50	1 775	0.819	2 594	2 775	1 206
46.75	46.67	357	00	0.10	0.100000	30.00	4 369	0.010	3 6 0 0	3 369	4 304
15.73	15.97	320	20	0.10	0.159000	20.51	1.703	0.010	2.300	2.703	1 302
15.75	16.00	339	20	0.10	0.159692	20.52	1.703	0.015	2.500	3 769	1 302
10.00	10.04	200	00	0.10	0.100170	20.02	4 363	0.010	2.007	3 763	4 300
15.00	16.07	333	20	0.10	0.100099	20.33	1.703	0.013	2.302	2.703	1 303
20.02	10.007	330	30	0.10	0.100004	20.09	4.707	0.013	2,200	2.707	1,202
10.00	10.00	200	20	0.18	0.100007	20.09	1.702	0.013	2.301	3.764	1.007
15.00	10.12	304	20	0.10	0.161201	20.35	1.750	0.819	2,373	2.750	1,607
13.31	10.15	334	30	0.10	0.101930	20.00	4.730	0.017	6.079	6.739	1.007
15.33	10.17	353	34	0.18	0.161/05	20.00	1.750	0.622	2.372	2.750	1.007
15.95	16.20	353	25	0.18	0.162016	20.57	1.750	0.819	2,300	2.750	1,694
15.98	10.22	353	35	0.16	0.152215	20.57	1.743	0.017	2.366	6.743	1.003
16.01	16.75	353	95	0.18	0.162511	20.58	1.748	0.819	2.567	2.748	1.693
16.03	16.27	352	34	0.18	0.162734	20.59	1.743	0.822	2.565	2.743	1.693
16.05	16.29	352	95	0.18	0.162947	20.59	1.743	0.819	2.561	2.743	1.690
16.08	16.32	352	95	0.18	0.163241	20.60	1.742	0.819	Z.561	Z.742	1.690

	Deform.	Celda	Presión	Incremento		Åres	Infecto	a'3	11	11	Enfuerzo
Deformación	Uniteria	Cargo	de poros	deporos	Deform.	Corregida	Derviedor	Electivo	Efectivo	Total	Promedio
(mm)	8	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kg(/cm*)	(kgt/cm²)	(kgt/cm <sup>2</sup> )
16.11	16.35	351	94	0.18	0.163536	20.61	1.736	0.822	2.558	2.736	1.690
16.13	16.37	351	94	0.18	0.163749	20.61	1.736	0.822	2.558	2.736	1.690
16.16	16.40	350	94	0.18	0.164043	20.62	1.730	0.822	2.552	2.730	1.687
16.18	16.43	350	94	0.18	0.164267	20.62	1.730	0.822	2.552	2.730	1.687
16.20	16.45	350	94	0.18	0.164480	20.63	1.730	0.822	2.551	2.730	1.685
16.23	16.48	350	94	0.18	0.164774	20.64	1.729	0.822	2.551	2.729	1.686
16.26	16.51	350	95	0.18	0.165069	20.64	1.728	0.819	2.547	2.728	1.683
16.28	16.53	350	94	0.18	0.165282	20.65	1.728	0.822	2.550	2.728	1.686
16.31	16.56	349	94	0.18	0.165576	20.66	1.722	0.822	2.544	2.722	1.683
16.33	16.58	349	94	0.18	0.165789	20.66	1.722	0.822	2.544	2.722	1.683
16.36	16.61	349	94	0.18	0.166084	20.67	1.721	0.822	2.543	2.721	1.682
16.38	16.63	349	94	0.18	0.166307	20.67	1.721	0.822	2.542	2.721	1.682
16.41	16.66	38	94	0.18	0.166591	20.68	1.715	0.822	2.537	2.715	1.679
16.43	16.68	348	94	0.18	0.166814	20.69	1.715	0.822	2.536	2.715	1.679
16.46	16.71	38	94	0.18	0.167109	20.69	1.714	0.824	2.539	2.714	1.682
16.48	16.73	348	94	0.18	0.167322	20.70	1.714	0.822	2.535	2.714	1.679
16.51	16.76	8 34	94	0.18	0.167616	20.71	1.713	0.824	2.538	2.713	1.681
16.54	16.78	347	94	0.18	0.167840	20.71	1.708	0.824	2.532	2.708	1.678
16.56	16.81	347	94	0.18	0.168124	20.72	1.707	0.822	2.529	2.707	1.675
16.59	16.83	348	94	0.18	0.168347	20.72	1.712	0.822	2.533	2.712	1.677
16.61	16.86	347	94	0.18	0.168642	20.73	1.706	0.824	2.531	2.706	1.677
16.64	16.89	쐟	94	0.18	0.168855	20.74	1.711	0.822	2.532	2.711	1.677
16.66	16.91	348	94	0.18	0.169078	20.74	1.710	0.822	2.532	2.710	1.677
16.69	16.94	348	94	0.18	0.169362	20.75	1.710	0.824	2.534	2.710	1.679
16.71	16.96	348	94	0.18	0.169586	20.76	1.709	0.824	2.534	2,709	1.679
16.73	16.98	349	94	0.18	0.169799	20.76	1.714	0.824	2.538	2.714	1.681
16.76	17.01	349	94	0.18	0.170093	20.77	1.713	0.824	2.537	2.713	1.681
16.78	17.03	350	94	0.18	0.170316	20.77	1.717	0.824	2.542	2.717	1.683
16.80	17.05	351	94	0.18	0.170530	20.78	1.722	0.824	2.546	2.722	1.685
16.82	17.08	352	94	0.18	0.170753	20.78	1.726	0.824	2.551	2.726	1.688
16.85	17.10	352	94	0.18	0.171047	20.79	1.726	0.824	2.550	2.726	1.687
16.87	17.13	352	94	0.18	0.171260	20.80	1.725	0.824	2.550	2.725	1.687
16.89	17.15	351	94	0.18	0.171484	20.80	1.720	0.824	2.544	2.720	1.684
16.92	17.18	352	94	0.18	0.171768	20.81	1.724	0.824	2.549	2.724	1.687
16.94	17.20	352	94	0.18	0.171991	20.82	1.724	0.824	2.548	2.724	1.686
16.97	17.23	352	94	0.18	0.172286	20.82	1.723	0.824	2.548	2.723	1.686
16.99	17.25	352	94	0.18	0.172499	20.83	1.723	0.824	2.547	2.723	1.685
17.02	17.27	352	94	0.18	0.172722	20.83	1.722	0.824	2.547	2.722	1.686
17.04	17.29	353	94	0.18	0.172935	20.84	1.727	0.824	2.551	2.727	1.688
17.07	17.32	352	94	0.18	0.173230	20.85	1.721	0.824	2.546	2.721	1.685
17.09	17.35	352	94	0.18	0.173453	20.85	1.721	0.824	2.545	2.721	1.685
17.11	17.37	353	94	0.18	0.173666	20.86	1.725	0.824	2.550	2.725	1.687
17.13	17.39	353	94	0.18	0.173889	20.86	1.725	0.824	2.549	2.725	1.687
17.16	17.42	353	94	0.17	0.174174	20.87	1.724	0.827	2.551	2.724	1.689
17.18	17.44	353	94	0.18	0.174397	20.88	1.724	0.824	2.548	2.724	1.686
17.20	17.46	353	94	0.18	0.174620	20.88	1.723	0.824	2.548	2.723	1.686
17.23	17.49	353	94	0.18	0.174904	20.89	1.723	0.824	2.547	2.723	1.686
17.25	17.51	352	94	0.17	0.175128	20.89	1.717	0.827	2.544	2.717	1.686
17.27	17.53	352	94	0.17	0.175341	20.90	1.717	0.827	2.544	2.717	1.686
17.30	17.56	352	94	0.17	0.175635	20.91	1.716	0.827	2.543	2.716	1.685
17.33	17.59	352	94	0.18	0.175859	20.91	1.716	0.824	2.540	2.716	1.682
17.35	17.61	352	94	0.18	0.176072	20.92	1.715	0.824	2.540	2.715	1.682

	Deferm	Califa	Presiden	Incremento		Area	Interno	13	11	s1	Lifuerzo
Deformación	Unitaria	Carpon	de norm	demons	Deform.	Cornelda	Developer	Harthes	Herthen	Tested	Promedia
(mm)	54	N	(b-D-)	(hetless)	Unitaria	(cm <sup>2</sup> )	Butten	(ket/cm <sup>2</sup> )	(kel/cm <sup>2</sup> )	(kat/cm <sup>2</sup> )	(hetlers <sup>2</sup> )
471.073	100		den al	A 4 2	0.000000	00.00	a nar	0.007	2.0.0	0.045	A COL
17.37	17.63	334	34	0.17	0.1/0/35	20.32	1/15	0.027	2.342	2.715	1.000
17.40	17.66	352	94	0.17	0.1/65/9	20.93	1./14	0.827	2.541	2.714	1.684
17.42	17.68	352	94	0.18	0.176803	20.94	1.714	0.824	2.538	2.714	1.681
17.44	17.70	352	94	0.17	0.177026	20.94	1.713	0.827	2.541	2.713	1.684
17.46	17.72	352	94	0.17	0.177239	20.95	1.713	0.827	2.540	2.713	1.684
17.49	17.75	352	94	0.17	0.177533	20.96	1.712	0.827	2.539	2.712	1.683
17.51	17.77	352	94	0.17	0.177747	20.96	1.712	0.827	2.539	2.712	1.683
17.54	17.80	352	94	0.17	0.178041	20.97	1.711	0.827	2.538	2.711	1.683
17.56	17.83	353	94	0.17	0.178264	20.97	1.716	0.830	2.546	2.716	1.688
17.58	17.85	352	94	0.17	0.178477	20.98	1.710	0.830	2.540	2.710	1.685
17.61	17.88	352	94	0.17	0.178772	20.99	1.710	0.827	2.537	2.710	1.682
17.64	17.91	352	94	0.17	0.179066	21.00	1.709	0.827	2.536	2.709	1.682
17.67	17.94	352	94	0.17	0.179350	21.00	1.708	0.827	2.536	2,708	1.681
17.69	17.96	352	94	0.17	0.179574	21.01	1.708	0.827	2.535	2.708	1.681
17,72	17.99	352	94	0.17	0.179868	21.02	1.707	0.827	2,535	2,707	1.681
17.75	18.02	353	94	0.17	0.180152	21.02	1,712	0.830	2.542	2,712	1.686
17.78	18.04	353	94	0.17	0.180447	21.03	1.711	0.830	2.541	2,711	1.686
17.80	18.07	858	94	0.17	0.180570	21.04	1 711	0.827	2 5 3 8	2 711	1.682
17.83	18 10	354	94	0.17	0.180954	21.04	1 715	0.830	2.545	2715	1 687
17.86	18.12	354	94	0.17	0.181249	21.05	1 714	0.830	2 544	2 714	1.687
17.00	10.10	300	6.5	0.47	0.101240	34.04	4 346	0.000	5 6 4 6	3 349	4 200
17.00	10.13	333	34	0.17	0.101043	21.05	1.710	0.000	2.340	2.710	1.002
17.51	10.10	333	34	0.17	0.101037	21.07	1.710	0.630	2.340	2.710	1.003
17.94	18.21	356	94	0.17	0.182050	21.07	1.722	0.830	2.552	2.722	1.691
17.95	18.23	350	34	0.17	0.182345	21.08	1.712	0.830	2.552	2.722	1.691
17.99	18.26	355	94	0.17	0.182639	21.09	1.718	0.830	2.546	2.716	1.688
18.01	18.29	356	94	0.17	0.182852	21.09	1.721	0.830	2.550	2.721	1.690
18.04	18.31	356	94	0.17	0.183147	21.10	1.720	0.830	2.550	2.720	1.690
18.07	18.34	356	94	0.17	0.183441	21.11	1.719	0.830	2.549	2.719	1.690
18.09	18.37	356	- 94	0.17	0.183654	21.11	1.719	0.830	2.549	2.719	1.689
18.12	18.39	356	94	0.17	0.183949	21.12	1.718	0.830	2.548	2.718	1.689
18.15	18.42	355	94	0.17	0.184243	21.13	1.713	0.830	2.543	2.713	1.686
18.18	18.45	355	94	0.17	0.184527	21.14	1.712	0.830	2.542	2.712	1.686
18.21	18.48	354	93	0.17	0.184822	21.14	1.707	0.833	2.539	2.707	1.686
18.24	18.51	354	94	0.17	0.185116	21.15	1.706	0.830	2.536	2.706	1.683
18.27	18.54	354	93	0.17	0.185410	21.16	1.705	0.833	2.538	2.705	1.686
18.29	18.57	354	93	0.17	0.185694	21.17	1.705	0.833	2.538	2.705	1.685
18.32	18.59	353	93	0.17	0.185918	21.17	1.700	0.833	2.532	2.700	1.683
18.35	18.62	353	93	0.17	0.186212	21.18	1.699	0.833	2.532	2.699	1.682
18.37	18.65	352	93	0.17	0.186496	21.19	1.694	0.833	2.526	2.694	1.680
18.40	18.67	351	93	0.17	0.186720	21.19	1.688	0.833	2.521	2.688	1.677
18.42	18,70	350	93	0.17	0.187014	21.20	1.683	0.833	2,516	2.683	1.674
18.45	18,73	350	93	0.17	0.187298	21.21	1.682	0.833	2.515	2.682	1.674
18.48	18.76	350	93	0.17	0187592	21.22	1.682	0.893	2 5 14	2.682	1.674
18.50	18.78	350	93	0.17	0.187816	21.22	1.681	0.833	2.514	2.681	1.673
18.53	18.81	350	93	0.17	0.188100	21.23	1.681	0,833	2,513	2,681	1.673
10 55	19.94	92.4	99	0.14	0.199905	21.24	1 600	0,992	3,630	3 600	1,670
10.00	10.09	354	90	0.10	0.100075	21.29	1,000	0.630	3,647	2,000	1,670
19 41	10.07	331	33	0.17	0.100003	21.29	1,009	0.833	3,647	3,004	1,675
10.01	10.00	331	33	0.17	0.100002	21.23	1.009	0.633	2.317	5,009	1.073
18.85	18.93	351	93	0.17	0.189267	21.25	1.683	0.833	2.516	2.683	1.674
18.67	18.35	351	33	0.15	0.189491	21.27	1.683	0.835	2.518	2.683	1.677
18.70	18.98	352	93	0.17	0.189785	21.27	1.687	0.833	2.520	2.687	1.676
18.73	19.01	351	93	0.16	0.190069	21.28	1.681	0.836	2.517	2.681	1.676

	Deform	Califa	Presiden	Incremento		Åres	Infuerzo	13	11	:1	Enfuerzo
Deformación	Unitaria	Corgo	de poros	deporos	Deform.	Corregida	Dervision	Efectivo	Electivo	Total	Promedio
(mm)	5	N	(kPa)	(kgt/cm <sup>2</sup> )	Uniteria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(log//cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )
18.75	19.03	351	93	0.16	0.190293	21.29	1.681	0.836	2.516	2.681	1.676
18.77	19.05	350	93	0.16	0.190506	21.29	1.676	0.836	2.511	2.676	1.673
18,79	19.07	350	93	0.16	0.190729	21.30	1.675	0.836	2.511	2.675	1.673
18.81	19.10	350	93	0.16	0.190952	21.30	1.675	0.836	2.510	2.675	1.673
18.84	19.12	349	93	0.16	0.191237	21.31	1.669	0.836	2.505	2.669	1.670
18.86	19.15	350	93	0.16	0.191460	21.32	1.674	0.836	2.509	2.674	1.672
18.89	19.18	349	93	0.16	0.191754	21.32	1.668	0.836	2.504	2.668	1.670
18.91	19.20	349	93	0.16	0.191968	21.33	1.668	0.836	2,503	2.668	1.669
18.94	19.23	349	93	0.16	0.192262	21.34	1.667	0.836	2.503	2.667	1.669
18.96	19.25	349	93	0.16	0.192475	21.34	1.667	0.836	2,502	2.667	1.669
18.99	19.28	349	93	0.16	0.192769	21.35	1,666	0.836	2,502	2,666	1.669
19.01	19.30	349	93	0.16	0.192993	21.36	1.666	0.836	2.501	2.666	1.668
19.03	19.32	349	93	0.16	0.193206	21.36	1.665	0.836	2,501	2.665	1.668
19.06	19.35	349	93	0.16	0.193500	21.37	1.665	0.836	2.500	2.665	1.668
19.08	19.37	349	93	0.16	0.193713	21.38	1.664	0.836	2.500	2.664	1.668
19.11	19,40	348	93	0.16	0.194008	21.38	1.659	0.836	2,494	2,659	1.665
19.14	19.42	348	93	0.16	0.194231	21.39	1.658	0.836	2,494	2.658	1.665
19.16	19.45	347	93	0.16	0.194515	21.40	1.653	0.836	2,489	2.653	1.662
19.19	19.47	347	93	0.16	0.194739	21.40	1.653	0.838	2,491	2.653	1.665
19.21	19.50	346	93	0.16	0.194962	21.41	1.647	0.838	2,486	2.647	1.662
19.23	19,52	346	93	0.16	0.195175	21.42	1.647	0.838	2,485	2.647	1.662
19.26	19.55	346	93	0.16	0.195469	21.42	1.646	0.838	2,485	2.646	1.662
19.28	19.57	346	93	0.16	0.195683	21.43	1.646	0.838	2,484	2.646	1.661
19.30	19,59	345	93	0.16	0.195906	21.43	1.641	0.838	2,479	2.641	1.659
19.33	19.62	345	93	0.16	0.196200	21.44	1.640	0.838	2.478	2.640	1.658
19.36	19.65	345	93	0.16	0.196485	21.45	1.640	0.838	2.478	2.640	1.658
19.38	19.67	344	93	0.16	0.196708	21.46	1.634	0.838	2,473	2.634	1.656
19.40	19.69	345	93	0.16	0.196921	21.46	1.639	0.838	2.477	2.639	1.658
19.43	19.72	345	93	0.16	0.197215	21.47	1.638	0.841	2.479	2.638	1.660
19.45	19.74	345	93	0.16	0.197439	21.48	1.638	0.838	2,476	2.638	1.657
19.48	19.77	345	93	0.16	0.197733	21.48	1.637	0.838	2.475	2.637	1.657
19.50	19,79	345	93	0.16	0.197946	21.49	1.637	0.841	2.478	2.637	1.659
19.52	19.82	346	98	0.16	0 198170	21.50	1.641	0.841	2.482	2.641	1.662
19.55	19.85	345	93	0.16	0.198454	21.50	1.636	0.838	2.474	2.636	1.656
19.57	19.87	346	93	0.16	0.198677	21.51	1.640	0.838	2,478	2.640	1.658
19.60	19.90	346	93	0.16	0.198971	21.52	1.639	0.838	2.478	2.639	1.658
19.62	19.92	347	93	0.16	0.199185	21.52	1.643	0.838	2,482	2.643	1.660
19.65	19.95	348	93	0.16	0.199479	21.53	1.648	0.838	2.486	2.648	1.662
19.68	19.98	348	93	0.16	0.199773	21.54	1.647	0.841	2,488	2.647	1.665
19,70	20.00	349	93	0.16	0.199986	21.54	1.651	0.841	2,492	2.651	1.667
19,73	20.03	349	93	0.16	0.200281	21.55	1.651	0.841	2,492	2.651	1,666
19.75	20.05	350	93	0.16	0.200494	21.56	1.655	0.841	2,496	2,655	1.669
19.78	20.08	350	93	0.16	0.200788	21.57	1.654	0.841	2.496	2.654	1.668
19.80	20.10	351	93	0.16	0.201012	21.57	1.659	0.841	2.500	2,659	1.670
19.82	20.12	352	93	0.16	0.201225	21.58	1.663	0.841	2.504	2.663	1.673
19.85	20.15	352	93	0.16	0.201519	21.59	1,662	0.841	2,503	2,662	1.672
19.88	20.17	352	93	0.16	0.201743	21.59	1.662	0.841	2.503	2.662	1.672
19.90	20.20	353	93	0.16	0.202027	21.60	1.666	0.841	2.507	2.666	1.674
19.93	20.23	352	93	0.16	0.202250	21.61	1,661	0.841	2,502	2,661	1.672
19.95	20.25	353	92	0.16	0.202463	21.61	1.665	0.844	2.509	2.665	1.676
19.98	20.28	353	92	0.16	0.202829	21.62	1,664	0.844	2,508	2,664	1,676
20.00	20.31	354	92	0.16	0.203052	21.63	1.669	0.844	2.512	2.669	1.678

	Delarm	Califa	Presiden	incremento		Åren	Estuerzo	13	11	=1	Erfuerzo
Deformación	Uniteda	Carea	de norae	deserve	Deform.	Cornerida	Developer	Berthos	Berthes	Total	Promedia
(mm)		N	(b Pa)	Buffers 3	Unitaria	(cm <sup>2</sup> )	Bullen 1	(kat/cm <sup>2</sup> )	(ket/cm <sup>2</sup> )	(kat/cm <sup>2</sup> )	(het/cm <sup>2</sup> )
20.02	20.22	35.4	0.2	0.16	0.000065	31.63	1 669	0.944	3 6 1 3	3 669	1.679
20.05	20.35	354	92	0.16	0.203559	21.64	1.667	0.844	2 511	2.667	1.678
20.00	20.20	224	02	0.16	0.000054	34.65	1.672	0.944	2 5 1 6	2,673	1.690
20.00	20.39	333	32	0.16	0.203034	21.00	1.074	0.944	2.310	2.671	1.000
20.11	20041	333	32	0.10	0.204140	1100	1.0/1	0.044	6163	2.0/1	1.013
				Čin	مغ والدار وار م	man la com					
				Exap		icer incren	letere .	-28	-24	-1	Reference
Deformación	Deform.	Celda	Presión	dassess	Deform.	Correction	Descinder		No.	Total	Promotio
(mm)	Unitaria N	Carga	de poros	the strench	Unitaria		Bartlan A	Chectivo	Dectivo	normi Anatomia	mar h
			(arm)	(sp/cm)		(cm.)	felli/cm }	(self/cm)	(chi/cm )	(di/cm)	(idu/cm.)
0.00	0.00	0	81	0.00	0.0000000	17.19	0.000	2.000	2.000	2.000	2.000
0.02	0.02	22	82	0.01	0.000225	17.20	0.130	1.994	2.125	2.130	2.060
0.04	0.04	- 34	82	0.01	0.000440	17.20	0.201	1.989	2.190	2.201	2.090
0.07	0.07	43	83	0.02	0.000666	17.21	0.255	1.983	2.238	2.255	2.111
0.09	0.10	51	83	0.02	0.000963	17.21	0.302	1.978	2.280	2.302	2.129
0.12	0.12	57	84	0.03	0.001178	17.21	0.338	1.972	2.310	2.338	2.141
0.14	0.14	64	84	0.03	0.001403	17.22	0.379	1.967	2.345	2.379	2.156
0.16	0.16	69	85	0.04	0.001618	17.22	0.408	1.961	2.369	2.408	2.165
0.19	0.19	75	86	0.04	0.001915	17.23	0.444	1.955	2.399	2.444	2.177
0.21	0.21	81	86	0.05	0.002141	17.23	0.479	1.947	2.426	2.479	2.187
0.24	0.24	85	87	0.06	0.002428	17.24	0.503	1.944	2.447	2.503	2.196
0.26	0.27	91	88	0.06	0.002653	17.24	0.538	1.936	2.474	2.538	2.205
0.29	0.30	95	88	0.07	0.002950	17.25	0.562	1.933	2,495	2.562	2.214
0.31	0.32	100	88	0.07	0.003165	17.25	0.591	1.928	2.519	2,591	2.223
0.34	0.35	104	89	0.08	0.003462	17.25	0.614	1.919	2.534	2.614	2.226
0.36	0.37	109	90	0.09	0.003688	17.26	0.644	1.914	2 557	2 644	2.286
0.38	0.39	113	90	0.09	0.003903	17.26	0.667	1908	2 575	2.667	2.242
0.40	0.41	117	91	0.10	0.004128	17.27	0.691	1 902	2 593	2.691	2.248
0.42	0.44	122	01	0.10	0.004415	17.97	0.730	1.997	3,617	3 730	3.967
0.45	0.46	122	91	0.10	0.004640	17.27	0.720	1.007	2.017	2.720	2.207
0.43	0.40	4.24		0.11	0.004077	471.040	0.745	4.000	0.000	0.770	0.020
0.47	0.49	151	33	0.11	0.004855	17.20	0.773	1.000	2.009	2.113	2.232
0.50	0.52	130	33	0.12	0.005152	17.20	0.002	1.000	2.002	2.002	2.201
0.52	0.55	140	24	0.15	0.005500	17.23	0.020	1.0/3	2.700	2.020	2.207
0.54	0.55	144	94	0.13	0.005521	17.29	0.849	1.869	2.718	2.849	2.294
0.57	0.58	148	95	0.14	0.005818	17.29	0.872	1.851	2.733	2.872	2.297
0.59	0.60	152	96	0.14	0.006033	17.30	0.896	1.855	2.751	2.896	2.303
0.61	0.63	156	96	0.15	0.006259	17.30	0.919	1.850	2.769	2.919	2.309
0.64	0.66	160	97	0.16	0.006556	17.31	0.942	1.841	2.783	2.942	2.312
0.66	0.68	165	98	0.16	0.006771	17.31	0.972	1.836	2.807	2.972	2.321
0.68	0.70	168	98	0.17	0.006996	17.32	0.989	1.830	2.819	2.989	2.325
0.70	0.72	172	99	0.18	0.007211	17.32	1.012	1.822	2.834	3.012	2.328
0.73	0.74	176	99	0.18	0.007437	17.32	1.036	1.816	2.852	3.036	2.334
0.76	0.77	179	100	0.19	0.007734	17.33	1.053	1.808	2.861	3.053	2.334
0.78	0.79	184	101	0.20	0.007949	17.33	1.082	1.805	2.887	3.082	2.346
0.80	0.82	187	101	0.20	0.008174	17.94	1.100	1.799	2.899	3.100	2.349
0.83	0.85	191	102	0.21	0.008461	17.94	1.123	1.791	2.914	3.123	2.352
0.85	0.87	195	103	0.21	0.008686	17.34	1.146	1.785	2.931	3.146	2.358
0.87	0.89	198	103	0.22	0.008901	17.35	1.163	1.780	2.943	3.163	2.362
0.90	0.92	202	104	0.23	0.009198	17.35	1,187	1,771	2,958	3,187	2,365
0.93	0.95	204	105	0.23	0.009495	17.36	1,198	1,766	2.964	3,198	2,365
0.95	0.97	208	105	0.24	0.009721	17.36	1.221	1.760	2.981	3.221	2.371
0.97	0.99	211	106	0.25	0.009936	17.97	1,238	1,755	2,993	3,238	2,374
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	Deform.	Celda	Presión	Incremento		Åres	Liferro .	13	11	:1	Enfuerco
Deformación	Unitaria	Cargo	de poros	deportos	Deform.	Correction	Derviedor	Electivo	Electivo	Total	Promedio
(mm)	5	N	(kPa)	(kat/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kat/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kat/cm <sup>2</sup> )
1.00	1.00	212	106	0.35	0.010033	17.97	1 350	1 749	2.000	2 350	3 3 3 4
1.03	1.05	216	107	0.26	0.010530	17.88	1.267	1 741	3,008	3 367	2.374
1.05	1.07	240	400	0.20	0.04/0245	17.55	1.270	4 795	2.04.4	3 170	0.074
1.09	1.10	210	100	0.20	0.0110/45	17.30	1 304	1.735	2006	3.275	2.374
1.10	4.45	224	4.00	0.00	0.044057	47.00	4.040	4,704	3.003	0.040	0.004
1.10	1.13	229	109	0.20	0.011257	17.39	1.313	1.729	2,042	3,313	2.301
1.13	1.10	220	110	0.20	0.011954	17.40	1.329	1.713	2,042	3.324	2.301
1.10	4.34	224	1.00	0.20	0.013066	17.40	4 959	4,202	2,000	0.000	2.004
1.10	1.24	222	111	0.20	0.012066	17.41	1.353	1 303	3.000	3,353	2.304
4.33	4.94	226	4.44	0.00	0.0135.00	17.11	4.000	4.000	2,004	0.000	2.000
1.23	1.29	239	112	0.30	0.013976	17.41	1.392	1.000	2,001	3,392	2,390
1.29	1.23	2.20	112	0.21	0.012172	17.42	1.333	1.000	2005	2,393	2,390
4.24	4.04	343	443	0.22	0.013369	47.42	1.434	4 693	3.404	2,424	2.000
1.31	1.34	243	113	0.32	0.013336	17.45	1,421	1.002	3.104	3.421	2,393
1.34	1.37	290	115	0.32	0.013063	17.40	1.430	1.077	3.115	3,430	2.399
1.3/	1.40	248	114	0.33	0.013982	17.44	1.450	1.6/1	3.121	3.450	2.396
1.39	1.42	201	1.04	0.33	0.014207	17.44	1.407	1.000	3.135	3.407	2,402
1.42	1.40	200	115	0.34	0.014454	17.45	1.476	1.003	3.141	3.476	2,402
1.44	1.48	254	115	0.34	0.014791	17.45	1.484	1.657	3.141	3.484	2.399
1.4/	1.51	257	116	0.35	0.015088	17.46	1.501	1.652	3.152	3.501	2,402
1.50	1.54	259	116	0.35	0.015385	17.46	1.512	1.646	3.158	3.512	2,402
1.53	1.57	262	117	0.36	0.015672	17.47	1.529	1.643	3.172	3.529	2.408
1.55	1.59	264	117	0.35	0.015897	17.47	1.540	1.638	3.178	3.540	2,408
1.58	1.62	266	118	0.37	0.016195	17.48	1.551	1.635	3.186	3.551	2.411
1.61	1.65	269	118	0.37	0.016481	17.48	1.568	1.629	3.198	3.568	2.414
1.64	1.68	270	119	0.38	0.016778	17.49	1.574	1.624	3.198	3.574	2.411
1.68	1.70	273	119	0.38	0.017004	17.49	1.591	1.621	3.212	3.591	2.416
1.69	1.73	275	119	0.38	0.017291	17.50	1.602	1.618	3.220	3.602	2,419
1.72	1.76	277	120	0.39	0.017588	17.50	1.613	1.613	3.226	3.613	2,419
1.74	1.78	279	120	0.39	0.017813	17.51	1.625	1.607	3.232	3.625	2.419
1.77	1.81	281	121	0.40	0.018100	17.51	1.636	1.604	3.240	3.636	2.422
1.79	1.83	284	121	0.40	0.018325	17.52	1.653	1.599	3.252	3.653	2.425
1.82	1.86	286	122	0.40	0.018622	17.52	1.664	1.596	3.260	3.664	2.428
1.85	1.89	288	122	0.41	0.018909	17.53	1.675	1.590	3.265	3.675	2.428
1.88	1.92	290	123	0.42	0.019206	17.53	1.686	1.585	3.271	3.686	2.428
1.90	1.94	291	123	0.42	0.019431	17.54	1.692	1.582	3.274	3.692	2.428
1.93	1.97	295	123	0.42	0.019718	17.54	1.714	1.576	3.291	3.714	2.434
1.95	2.00	296	124	0.43	0.020015	17.55	1.720	1.571	3.291	3.720	2.431
1.98	2.03	298	124	0.43	0.020312	17.55	1.731	1.568	3.299	3.731	2.433
2.00	2.05	300	125	0.44	0.020527	17.55	1.742	1.562	3.304	3.742	2,433
2.03	2.08	301	125	0.44	0.020753	17.56	1.747	1.560	3.307	3.747	2.433
2.06	2.10	303	126	0.45	0.021050	17.56	1.759	1.554	3.313	3.759	2.433
2.08	2.13	305	126	0.45	0.021337	17.57	1.770	1.549	3.318	3.770	2.433
2.11	2.16	307	127	0.46	0.021634	17.57	1.781	1.543	3.324	3.781	2.433
2.13	2.19	308	127	0.46	0.021859	17.58	1.786	1.537	3.323	3,786	2.430
2.16	2.21	310	128	0.47	0.022074	17.58	1.797	1.535	3.332	3,797	2.433
2.18	2.23	312	128	0.47	0.022299	17.59	1.808	1.529	3.337	3.808	2.433
2.20	2.25	313	128	0.47	0.022515	17.59	1.814	1.526	3.340	3.814	2.433
2.23	2.28	315	129	0.48	0.022812	17.60	1.825	1.521	3.346	3.825	2.433
2.25	2.30	317	130	0.48	0.023037	17.60	1.836	1.515	3.351	3.836	2.433
2.28	2.33	318	130	0.49	0.023324	17.60	1.841	1.512	3.354	3.841	2.433
2.31	2.36	320	130	0.49	0.023621	17.61	1.852	1.507	3.359	3.852	2.433
2.33	2.38	322	131	0.50	0.023846	17.61	1.863	1.501	3.365	3.863	2.433

	Deform.	Celda	Presiden	Incremento		Area	Enfuerto	13	11	11	Erfuerzo
Deformación	Unitaria	Cargo	de poros	deportos	Deform.	Correction	Dervindor	Efectivo	Efectivo	Total	Promedio
(mm)	56	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
2.35	2.41	324	191	0.50	0.024061	17.62	1.875	1.498	3 373	3.875	2.436
2.37	2.43	325	132	0.51	0.024287	17.62	1.880	1.493	3,373	3,880	2.433
2.40	2.46	326	192	0.51	0.024573	17.63	1.885	1.490	3 375	3 885	2.433
2.42	2.48	328	198	0.52	0.024799	17.63	1.895	1 484	3 381	3,896	2.433
2.44	2.50	839	198	0.52	0.025024	17.64	1 902	1.482	3 383	3 902	2.432
2.46	2.52	331	194	0.52	0.025239	17.64	1913	1.476	3 389	3 913	2 4 3 2
2.49	2.55	332	134	0.53	0.025536	17.64	1.918	1.473	3,391	3.918	2,432
2.51	2.58	334	194	0.53	0.025751	17.65	1 9 2 9	1.468	3 397	3,929	2.432
2.54	2.60	335	195	0.54	0.025977	17.65	1934	1.465	3 399	3 934	2 4 3 2
3.57	3.63	224	100	0.54	0.006078	17.00	1.040	1.450	2 200	2.040	3,438
2.57	2.03	339	100	0.54	0.006489	17.00	1.051	1.457	3,399	2.040	2,423
2.55	2.67	220	100	0.54	0.006714	17.67	1.054	1.451	2,407	2 054	2,439
2.02	0.70	344	4.00	0.35	0.003004	13.07	1.003	1.110	3,407	0.000	0.400
2.04	2.70	241	1.30	0.55	0.027001	17.07	1.072	1.440	3.413	3.307	2,432
2.00	2.72	342	1.37	0.55	0.027220	17.00	1.972	1.440	3.410	3.372	2,402
2.68	2.75	343	137	0.56	0.027452	17.68	1.978	1.440	3.417	3.978	2.429
2.71	2.11	343	137	0.56	0.027739	17.68	1.989	1.437	3.425	3.989	2.431
2.73	2.80	346	138	0.57	0.027964	17.69	1.994	1.431	3.425	3.394	2.428
2.76	2.83	348	138	0.57	0.028261	17.69	2.005	1.429	3.433	4.005	2.431
2.78	2.85	350	139	0.58	0.028476	17.70	2.018	1.423	3.459	4.016	2.431
2.80	2.87	351	139	0.58	0.028/01	17.70	2.021	1.420	3.441	4.021	2.431
2.82	2.89	353	139	0.58	0.028917	17.71	2.032	1.418	3.450	4.032	2.434
2.85	2.92	355	140	0.59	0.029214	17.71	2.043	1.415	3,458	4.043	2.436
2.87	2.94	356	140	0.59	0.029439	17.72	2.048	1.409	3.458	4.048	2.433
2.90	2.97	358	140	0.59	0.029726	17.72	2.059	1.406	3.466	4.059	2.436
2.92	3.00	359	141	0.60	0.029951	17.73	2.065	1.401	3.465	4.065	2.433
2.95	3.02	361	141	0.60	0.030248	17.73	2.075	1.398	3.473	4.075	2.436
2.97	3.05	362	142	0.60	0.030463	17.73	2.081	1.395	3.476	4.081	2.436
3.00	3.07	365	142	0.61	0.030689	17.74	2.098	1.392	3.490	4.098	2.441
3.02	3.10	366	142	0.61	0.030975	17.74	2.103	1.390	3.492	4.103	2.441
3.05	3.13	368	143	0.62	0.031273	17.75	2.113	1.384	3.498	4.113	2.441
3.08	3.15	370	143	0.62	0.031498	17.75	2.124	1.378	3.503	4.124	2.441
3.10	3.18	371	144	0.62	0.031785	17.76	2.130	1.376	3.505	4.130	2.440
3.13	3.20	373	144	0.63	0.032010	17.76	2.141	1.373	3.513	4.141	2.443
3.15	3.23	374	144	0.63	0.032307	17.77	2.146	1.370	3.516	4.146	2.443
3.18	3.25	376	144	0.63	0.032522	17.77	2.157	1.367	3.524	4.157	2.446
3.20	3.28	377	145	0.64	0.032819	17.78	2.162	1.365	3.526	4.162	2.445
3.23	3.30	379	145	0.64	0.033034	17.78	2.173	1.359	3.532	4.173	2.445
3.25	3.33	381	145	0.64	0.033331	17.79	2.183	1.359	3.542	4.183	2.451
3.28	3.36	382	146	0.65	0.033557	17.79	2.189	1.353	3.542	4.189	2.448
3.30	3.38	383	146	0.65	0.033844	17.80	2.194	1.351	3.544	4.194	2.448
3.33	3.41	385	146	0.65	0.034069	17.80	2.205	1.348	3.553	4.205	2.450
3.36	3.44	386	147	0.65	0.034366	17.81	2.210	1.345	3.555	4.210	2.450
3.37	3.45	388	147	0.66	0.034509	17.81	2.221	1.342	3.563	4.221	2.453
3.41	3.49	389	147	0.66	0.034878	17.82	2.226	1.339	3.565	4.226	2.452
3.43	3.51	391	148	0.67	0.035103	17.82	2.237	1.334	3.571	4.237	2.452
3.45	3.53	392	148	0.67	0.035319	17.82	2.242	1.331	3.573	4.242	2.452
3.48	3.56	393	148	0.67	0.035616	17.83	2.247	1.328	3.575	4.247	2.452
3.51	3.59	395	149	0.67	0.035913	17.83	2.258	1.326	3.583	4.258	2.454
3.53	3.61	396	149	0.68	0.036128	17.84	2.263	1.323	3.586	4.263	2.454
3.55	3.64	398	149	0.68	0.036353	17.84	2.274	1.320	3.594	4.274	2.457
3.58	3.66	398	149	0.68	0.036640	17.85	2.273	1.317	3,590	4.273	2.454
3.60	3.69	399	150	0.69	0.036865	17.85	2.278	1.314	3.593	4.278	2.454

Unitaria         Unitaria         Served         Served         Unitaria         Corregista         Develocino         Unitaria         Develocino         Develocino <thdevelocino< th=""> <thdevelocino< th="">         &lt;</thdevelocino<></thdevelocino<>	I		Delocm	Calda	Presiden	Incremento		Area	Entremo	13	a'1	=1	Erfuerzo
Imm         is         N         (urb)         (urb) <th></th> <th>Deformación</th> <th>Unitaria</th> <th>Cargo</th> <th>de poros</th> <th>deportos</th> <th>Deform.</th> <th>Correction</th> <th>Dervindor</th> <th>Efectivo</th> <th>Electivo</th> <th>Total</th> <th>Promedio</th>		Deformación	Unitaria	Cargo	de poros	deportos	Deform.	Correction	Dervindor	Efectivo	Electivo	Total	Promedio
3.63         3.72         401         150         0.69         0.037161         17.86         2.284         1.314         3.601         4.284         2.485           3.68         3.77         403         150         0.69         0.03767         17.87         2.294         1.309         3.608         4.294         2.485           3.70         3.79         405         151         0.70         0.038135         1.787         2.291         1.306         3.664         4.294         2.458           3.77         403         511         0.70         0.038135         1.788         2.315         1.303         3.618         4.315         2.461           3.77         3.84         407         151         0.70         0.038121         1.788         2.330         1.295         3.612         4.300         2.465           3.80         3.97         4.10         152         0.71         0.039211         1.790         2.300         1.295         3.622         4.380         2.467           3.84         4.00         4.15         0.77         0.049373         1.716         1.236         1.214         3.55         4.315         2.467           3.83         4.02 <th></th> <th>(mm)</th> <th>*</th> <th>N</th> <th>(kPa)</th> <th>(kgt/cm<sup>2</sup>)</th> <th>Unitaria</th> <th>(cm<sup>2</sup>)</th> <th>(kgt/cm<sup>2</sup>)</th> <th>(kgt/cm<sup>2</sup>)</th> <th>(kgl/cm<sup>2</sup>)</th> <th>(legt/cm<sup>2</sup>)</th> <th>(kgt/cm<sup>2</sup>)</th>		(mm)	*	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(legt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
1.65         3.74         402         150         0.65         0.05757         17.86         2.294         1.309         3.603         4.294         2.486           3.48         3.77         403         150         0.69         0.05765         1.87         2.291         1.306         3.481         4.190         2.461           3.72         3.81         405         151         0.70         0.038125         1.782         2.310         1.306         3.512         4.310         2.451           3.77         3.86         407         151         0.70         0.038127         1.782         2.300         1.298         3.512         4.310         2.451           3.83         3.24         401         152         0.71         0.039214         1.790         2.335         1.292         3.632         4.430         2.466           3.83         3.24         4.15         152         0.71         0.039214         1.790         2.366         1.284         3.464         4.352         4.430         4.445         2.467           3.83         4.02         4.451         153         0.72         0.040046         1.792         2.366         1.284         3.851         4.367	ſ	3.63	8.72	401	150	0.69	0.087162	17.86	2 289	1 314	3,603	4 289	2.459
1.66         3.77         403         150         0.69         0.037675         17.87         2.199         1.309         3.608         4.299         2.458           3.70         3.73         405         151         0.70         0.038112         17.88         2.310         1.306         5.416         4.310         2.451           3.72         3.84         407         151         0.70         0.038121         17.88         2.320         1.300         3.621         4.320         2.458           3.77         3.86         407         151         0.70         0.038924         17.89         2.330         1.225         3.657         4.330         2.460           3.86         3.92         410         152         0.71         0.039733         1.791         2.351         1.292         3.622         4.340         2.460           3.86         3.97         413         152         0.71         0.039733         1.791         2.351         1.292         3.622         4.340         2.462           3.83         4.00         4.16         153         0.71         0.039563         1.791         2.351         1.284         3.651         4.362         2.462 <t< td=""><td>ŀ</td><td>3.65</td><td>3.74</td><td>402</td><td>150</td><td>0.69</td><td>0.037377</td><td>17.85</td><td>2 294</td><td>1309</td><td>3,603</td><td>4 294</td><td>2456</td></t<>	ŀ	3.65	3.74	402	150	0.69	0.037377	17.85	2 294	1309	3,603	4 294	2456
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ŀ	3.68	9.77	403	150	0.69	0.087675	17.87	2 299	1 309	3,608	4 299	2458
100         100         100         100         10000         1000         1000         10	ŀ	3.70	3.79	405	151	0.69	0.037900	17.87	2 810	1 305	3,616	4 310	2.461
$  \begin{array}{ccccccccccccccccccccccccccccccccccc$	ŀ	3.70	0.04	100	101	0.30	0.032115	17.00	2.245	1 303	3 6 1 9	4 946	3 464
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ŀ	3.72	3.01	400	101	0.70	0.030115	17.00	2.315	1,305	3,010	4,010	2.401
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ŀ	3.77	3.86	407	151	0.70	0.038627	17.89	2 820	1 298	3.617	4 320	2.458
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	ŀ	3.07	0.00	400	163	0.75	0.022034	17.99	2 220	1 395	0.000	4 990	3 460
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ŀ	3.93	2.02	410	103	0.71	0.028221	17.00	3,000	1 393	2,637	4 995	3 460
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ŀ	0.00	0.00	444	403	0.71	0.0000210	17.00	2.240	1 202	0.600	4.305	3,463
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ŀ	3.00	3.33	410	403	0.71	0.039310	17.30	2.340	1.292	3,032	4.340	2,402
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ŀ	3.00	3.37	413	102	0.71	0.030733	17.91	3 352	1.200	3,040	4,351	2,403
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ŀ	3.91	4.00	100	400	0.72	0.040030	17.31	2.330	1.204	3.040	4.300	2,402
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ŀ	3.93	4.02	410	155	0.72	0.040246	17.92	2.357	1.284	3.651	4.367	2,467
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ŀ	3.35	4.00	410	130	0.72	0.040471	17.32	2.300	1.101	3.047	4.300	2,404
$  \begin{array}{ccccccccccccccccccccccccccccccccccc$	ŀ	3.98	4.08	417	153	0.72	0.040768	17.93	2.3/1	1.278	3,650	4.3/1	2.464
$  \begin{array}{ccccccccccccccccccccccccccccccccccc$	ŀ	4.00	4.10	418	154	0.72	0.040983	17.93	2.3//	1.275	3.652	4.377	2,464
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	ŀ	4.03	4.13	419	154	0.73	0.041280	17.93	2.382	1.273	3.654	4.382	2.46.5
$  \begin{array}{ccccccccccccccccccccccccccccccccccc$	ŀ	4.05	4.15	420	154	0.73	0.041505	17.94	2.387	1.270	3.656	4.387	2.463
$  \begin{array}{ c c c c c c c c c c c c c c c c c c c$	ŀ	4.07	4.17	421	154	0.73	0.041721	17.94	2.392	1.270	3.662	4.392	2.465
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	ŀ	4.10	4.20	422	154	0.73	0.042018	17.95	2.597	1.267	3.664	4.397	2.465
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Ļ	4.12	4.22	422	155	0.74	0.042233	17.95	2.396	1.264	3.660	4.396	2.462
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	ļ	4.15	4.25	424	155	0.74	0.042530	17.96	2.407	1.264	3.671	4.407	2.468
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	ļ	4.18	4.28	425	155	0.74	0.042827	17.96	2.412	1.261	3.673	4.412	2.467
4.23       4.33       426       155       0.74       0.043339       17.97       2.416       1.259       3.675       4.416       2.467         4.25       4.36       427       156       0.74       0.043564       17.98       2.421       1.256       3.677       4.421       2.466         4.30       4.41       429       156       0.75       0.044077       17.99       2.431       1.250       3.681       4.431       2.466         4.32       4.43       429       156       0.75       0.044077       17.99       2.431       1.250       3.681       4.431       2.466         4.33       4.44       429       156       0.75       0.044077       17.99       2.431       1.250       3.681       4.431       2.466         4.33       4.44       430       157       0.76       0.044517       18.00       2.435       1.245       3.680       4.435       2.462         4.40       4.50       431       157       0.76       0.045326       18.01       2.439       1.242       3.681       4.449       2.462         4.43       4.53       431       157       0.76       0.045552       18.01       2.	Ļ	4.20	4.30	425	155	0.74	0.043042	17.97	2.411	1.259	3.670	4.411	2.464
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Ļ	4.23	4.33	426	155	0.74	0.043339	17.97	2.416	1.259	3.675	4.416	2.467
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	L	4.25	4.36	427	156	0.74	0.043564	17.98	2.421	1.256	3.677	4.421	2.466
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	L	4.27	4.38	428	156	0.75	0.043779	17.98	2.426	1.253	3.679	4.426	2.466
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ļ	4.30	4.41	429	156	0.75	0.044077	17.99	2.431	1.250	3.682	4.431	2.466
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	l	4.32	4.43	429	156	0.75	0.044292	17.99	2.431	1.250	3.681	4.431	2.466
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	l	4.35	4.45	430	156	0.75	0.044517	18.00	2.436	1.247	3.683	4.436	2.465
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		4.38	4.48	430	157	0.76	0.044814	18.00	2.435	1.245	3.680	4.435	2.462
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	l	4.40	4.50	431	157	0.76	0.045029	18.01	2.440	1.245	3.685	4.440	2.465
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		4.43	4.53	431	157	0.76	0.045326	18.01	2.439	1.242	3.681	4.439	2.462
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ſ	4.45	4.56	431	157	0.76	0.045552	18.01	2.439	1.239	3.678	4.439	2.459
4.50         4.61         433         157         0.76         0.046064         18.02         2.449         1.236         3.685         4.449         2.461           4.52         4.63         434         158         0.77         0.046279         18.03         2.454         1.234         3.687         4.454         2.461           4.55         4.66         435         158         0.77         0.046576         18.03         2.459         1.234         3.692         4.459         2.463           4.57         4.68         435         158         0.77         0.046801         18.04         2.453         1.234         3.692         4.453         2.463           4.60         4.71         436         158         0.77         0.047088         18.04         2.463         1.231         3.694         4.463         2.462           4.62         4.73         436         158         0.77         0.047313         18.05         2.463         1.228         3.691         4.463         2.462           4.64         4.75         438         158         0.77         0.047339         18.05         2.473         1.228         3.701         4.473         2.465 <tr< td=""><td>ſ</td><td>4.47</td><td>4.58</td><td>432</td><td>157</td><td>0.76</td><td>0.045767</td><td>18.02</td><td>2.444</td><td>1.239</td><td>3.683</td><td>4.444</td><td>2.461</td></tr<>	ſ	4.47	4.58	432	157	0.76	0.045767	18.02	2.444	1.239	3.683	4.444	2.461
4.52         4.63         434         158         0.77         0.046279         18.03         2.454         1.234         3.687         4.454         2.461           4.55         4.66         435         158         0.77         0.046576         18.03         2.459         1.234         3.692         4.459         2.463           4.57         4.68         435         158         0.77         0.046801         18.04         2.453         1.231         3.692         4.458         2.463           4.60         4.71         436         158         0.77         0.047088         18.04         2.463         1.231         3.694         4.463         2.462           4.62         4.73         436         158         0.77         0.047313         18.05         2.463         1.228         3.691         4.463         2.459           4.64         4.75         438         158         0.77         0.047339         18.05         2.473         1.228         3.701         4.473         2.465           4.67         4.78         439         159         0.77         0.047359         18.06         2.478         1.225         3.703         4.478         2.464 <tr< td=""><td>ſ</td><td>4.50</td><td>4.61</td><td>433</td><td>157</td><td>0.76</td><td>0.046064</td><td>18.02</td><td>2.449</td><td>1.236</td><td>3.685</td><td>4.449</td><td>2.461</td></tr<>	ſ	4.50	4.61	433	157	0.76	0.046064	18.02	2.449	1.236	3.685	4.449	2.461
4.55         4.66         435         158         0.77         0.046576         18.03         2.459         1.234         3.692         4.459         2.463           4.57         4.68         435         158         0.77         0.046801         18.04         2.458         1.234         3.692         4.458         2.463           4.60         4.71         436         158         0.77         0.047088         18.04         2.463         1.231         3.694         4.463         2.462           4.62         4.73         436         158         0.77         0.047313         18.05         2.463         1.228         3.691         4.463         2.462           4.64         4.75         438         158         0.77         0.047339         18.05         2.473         1.228         3.701         4.463         2.465           4.67         4.78         439         159         0.77         0.047326         18.06         2.478         1.225         3.703         4.478         2.464           4.69         4.81         439         159         0.77         0.048051         18.06         2.478         1.225         3.703         4.478         2.464 <tr< td=""><td>ſ</td><td>4.52</td><td>4.63</td><td>434</td><td>158</td><td>0.77</td><td>0.046279</td><td>18.03</td><td>2.454</td><td>1.234</td><td>3.687</td><td>4.454</td><td>2.461</td></tr<>	ſ	4.52	4.63	434	158	0.77	0.046279	18.03	2.454	1.234	3.687	4.454	2.461
4.57         4.68         435         158         0.77         0.046801         18.04         2.458         1.234         3.692         4.458         2.463           4.60         4.71         436         158         0.77         0.047088         18.04         2.463         1.231         3.694         4.463         2.462           4.62         4.73         436         158         0.77         0.047313         18.05         2.463         1.228         3.691         4.463         2.459           4.64         4.75         438         158         0.77         0.047339         18.05         2.473         1.228         3.701         4.473         2.465           4.67         4.78         439         159         0.77         0.047539         18.06         2.478         1.225         3.703         4.478         2.464           4.69         4.81         439         159         0.77         0.048051         18.06         2.478         1.225         3.703         4.478         2.464           4.72         4.83         440         159         0.78         0.048348         18.07         2.482         1.222         3.705         4.482         2.464 <tr< td=""><td>ľ</td><td>4.55</td><td>4.66</td><td>435</td><td>158</td><td>0.77</td><td>0.046576</td><td>18.03</td><td>2,459</td><td>1.234</td><td>3.692</td><td>4,459</td><td>2.463</td></tr<>	ľ	4.55	4.66	435	158	0.77	0.046576	18.03	2,459	1.234	3.692	4,459	2.463
4.60         4.71         436         158         0.77         0.047088         18.04         2.463         1.231         3.694         4.463         2.462           4.62         4.73         436         158         0.77         0.047313         18.05         2.463         1.228         3.691         4.463         2.459           4.64         4.75         438         158         0.77         0.047539         18.05         2.473         1.228         3.701         4.473         2.465           4.67         4.78         439         159         0.77         0.047826         18.06         2.473         1.225         3.703         4.473         2.464           4.69         4.81         439         159         0.77         0.047826         18.06         2.478         1.225         3.703         4.478         2.464           4.72         4.83         440         159         0.78         0.048348         18.07         2.482         1.222         3.705         4.482         2.464           4.74         4.86         441         159         0.78         0.048563         18.07         2.482         1.222         3.710         4.488         2.466 <tr< td=""><td>ſ</td><td>4.57</td><td>4.68</td><td>435</td><td>158</td><td>0.77</td><td>0.046801</td><td>18.04</td><td>2.458</td><td>1.234</td><td>3.692</td><td>4.458</td><td>2.463</td></tr<>	ſ	4.57	4.68	435	158	0.77	0.046801	18.04	2.458	1.234	3.692	4.458	2.463
4.62         4.73         436         158         0.77         0.047313         18.05         2.463         1.228         3.691         4.463         2.459           4.64         4.75         438         158         0.77         0.047539         18.05         2.473         1.228         3.701         4.473         2.465           4.67         4.78         439         159         0.77         0.047539         18.06         2.473         1.225         3.703         4.473         2.465           4.69         4.81         439         159         0.77         0.048051         18.06         2.478         1.225         3.703         4.478         2.464           4.72         4.83         440         159         0.78         0.048348         18.07         2.482         1.222         3.705         4.482         2.464           4.74         4.86         441         159         0.78         0.048563         18.07         2.488         1.222         3.710         4.488         2.466           4.77         4.89         442         159         0.78         0.048563         18.07         2.488         1.222         3.710         4.488         2.466 <tr< td=""><td>ľ</td><td>4.60</td><td>4.71</td><td>436</td><td>158</td><td>0.77</td><td>0.047088</td><td>18.04</td><td>2.463</td><td>1.231</td><td>3.694</td><td>4.463</td><td>2.462</td></tr<>	ľ	4.60	4.71	436	158	0.77	0.047088	18.04	2.463	1.231	3.694	4.463	2.462
4.64         4.75         438         158         0.77         0.047539         18.05         2.473         1.228         3.701         4.473         2.465           4.67         4.78         439         159         0.77         0.047826         18.06         2.478         1.225         3.703         4.473         2.464           4.69         4.81         439         159         0.77         0.048051         18.06         2.478         1.225         3.703         4.478         2.464           4.72         4.83         440         159         0.78         0.048348         18.07         2.482         1.222         3.703         4.478         2.464           4.74         4.86         441         159         0.78         0.048348         18.07         2.482         1.222         3.703         4.478         2.464           4.74         4.86         441         159         0.78         0.048563         18.07         2.488         1.222         3.710         4.482         2.464           4.77         4.89         442         159         0.78         0.048563         18.07         2.492         1.220         3.711         4.492         2.466 <tr< td=""><td>ľ</td><td>4.62</td><td>4.73</td><td>436</td><td>158</td><td>0.77</td><td>0.047313</td><td>18.05</td><td>2.463</td><td>1.228</td><td>3.691</td><td>4,463</td><td>2,459</td></tr<>	ľ	4.62	4.73	436	158	0.77	0.047313	18.05	2.463	1.228	3.691	4,463	2,459
4.67         4.78         439         159         0.77         0.047826         18.06         2.478         1.225         3.703         4.478         2.464           4.69         4.81         439         159         0.77         0.048051         18.06         2.478         1.225         3.703         4.478         2.464           4.72         4.83         440         159         0.78         0.048348         18.07         2.482         1.222         3.705         4.482         2.464           4.74         4.86         441         159         0.78         0.048563         18.07         2.488         1.222         3.710         4.488         2.464           4.77         4.89         442         159         0.78         0.048563         18.07         2.488         1.222         3.710         4.488         2.466           4.77         4.89         442         159         0.78         0.048563         18.08         2.492         1.220         3.711         4.492         2.466           4.79         4.91         442         159         0.78         0.049075         18.08         2.492         1.220         3.711         4.492         2.466 <tr< td=""><td>ľ</td><td>4.64</td><td>4.75</td><td>438</td><td>158</td><td>0.77</td><td>0.047539</td><td>18.05</td><td>2,473</td><td>1.228</td><td>3.701</td><td>4.473</td><td>2,465</td></tr<>	ľ	4.64	4.75	438	158	0.77	0.047539	18.05	2,473	1.228	3.701	4.473	2,465
4.69         4.81         439         159         0.77         0.048051         18.06         2.478         1.225         3.703         4.478         2.464           4.72         4.83         440         159         0.78         0.048051         18.06         2.478         1.225         3.703         4.478         2.464           4.72         4.83         440         159         0.78         0.048348         18.07         2.482         1.222         3.705         4.482         2.464           4.74         4.86         441         159         0.78         0.048563         18.07         2.488         1.222         3.710         4.482         2.464           4.77         4.89         442         159         0.78         0.048563         18.07         2.488         1.222         3.710         4.488         2.466           4.79         4.91         442         159         0.78         0.048860         18.08         2.492         1.220         3.711         4.492         2.466           4.81         4.93         443         159         0.78         0.049075         18.08         2.492         1.217         3.714         4.497         2.465 <tr< td=""><td>ŀ</td><td>4,67</td><td>4,78</td><td>439</td><td>159</td><td>0.77</td><td>0.047826</td><td>18.06</td><td>2,478</td><td>1,225</td><td>3,703</td><td>4,478</td><td>2,464</td></tr<>	ŀ	4,67	4,78	439	159	0.77	0.047826	18.06	2,478	1,225	3,703	4,478	2,464
4.72         4.83         440         159         0.78         0.048348         18.07         2.482         1.222         3.705         4.482         2.464           4.74         4.86         441         159         0.78         0.048348         18.07         2.482         1.222         3.705         4.482         2.464           4.74         4.86         441         159         0.78         0.048563         18.07         2.488         1.222         3.710         4.488         2.466           4.77         4.89         442         159         0.78         0.048860         18.08         2.492         1.220         3.712         4.492         2.466           4.79         4.91         442         159         0.78         0.049075         18.08         2.492         1.220         3.711         4.492         2.466           4.81         4.93         443         159         0.78         0.049301         18.09         2.497         1.217         3.714         4.497         2.465           4.84         4.96         444         159         0.78         0.049598         18.09         2.502         1.217         3.714         4.497         2.465 <tr< td=""><td>ľ</td><td>4.69</td><td>4.81</td><td>439</td><td>159</td><td>0.77</td><td>0.048051</td><td>18.06</td><td>2.478</td><td>1.225</td><td>3,703</td><td>4.478</td><td>2,464</td></tr<>	ľ	4.69	4.81	439	159	0.77	0.048051	18.06	2.478	1.225	3,703	4.478	2,464
4.74         4.86         441         159         0.78         0.048563         18.07         2.488         1.222         3.710         4.488         2.466           4.77         4.89         442         159         0.78         0.048563         18.07         2.488         1.222         3.710         4.488         2.466           4.77         4.89         442         159         0.78         0.048860         18.08         2.492         1.220         3.712         4.492         2.466           4.79         4.91         442         159         0.78         0.049075         18.08         2.492         1.220         3.711         4.492         2.466           4.81         4.93         443         159         0.78         0.049301         18.09         2.497         1.217         3.714         4.497         2.465           4.84         4.96         444         159         0.78         0.049598         18.09         2.502         1.217         3.719         4.502         2.468           4.86         4.98         445         160         0.79         0.049598         18.09         2.502         1.217         3.719         4.507         2.467 <tr< td=""><td>ŀ</td><td>4.72</td><td>4.83</td><td>440</td><td>159</td><td>0.78</td><td>0.048348</td><td>18.07</td><td>2.482</td><td>1.222</td><td>3.705</td><td>4.482</td><td>2.464</td></tr<>	ŀ	4.72	4.83	440	159	0.78	0.048348	18.07	2.482	1.222	3.705	4.482	2.464
4.77         4.89         442         159         0.78         0.048860         18.08         2.492         1.220         3.712         4.492         2.466           4.79         4.91         442         159         0.78         0.049075         18.08         2.492         1.220         3.712         4.492         2.466           4.79         4.91         442         159         0.78         0.049075         18.08         2.492         1.220         3.711         4.492         2.466           4.81         4.93         443         159         0.78         0.049301         18.09         2.497         1.217         3.714         4.492         2.465           4.84         4.96         444         159         0.78         0.049598         18.09         2.502         1.217         3.719         4.502         2.468           4.86         4.98         445         160         0.79         0.049813         18.10         2.507         1.214         3.721         4.507         2.467           4.89         5.01         446         160         0.79         0.050110         18.10         2.512         1.214         3.726         4.512         2.470 <td>ŀ</td> <td>4,74</td> <td>4,86</td> <td>441</td> <td>159</td> <td>0.78</td> <td>0.048563</td> <td>18.07</td> <td>2,488</td> <td>1,222</td> <td>3,710</td> <td>4,488</td> <td>2,466</td>	ŀ	4,74	4,86	441	159	0.78	0.048563	18.07	2,488	1,222	3,710	4,488	2,466
4.79         4.91         442         159         0.78         0.049075         18.08         2.492         1.220         3.711         4.492         2.466           4.81         4.93         443         159         0.78         0.049075         18.08         2.492         1.220         3.711         4.492         2.466           4.81         4.93         443         159         0.78         0.049301         18.09         2.497         1.217         3.714         4.497         2.465           4.84         4.96         444         159         0.78         0.049598         18.09         2.502         1.217         3.719         4.502         2.468           4.86         4.98         445         160         0.79         0.049813         18.10         2.507         1.214         3.721         4.507         2.467           4.89         5.01         446         160         0.79         0.050110         18.10         2.512         1.214         3.726         4.512         2.470	ŀ	4.77	4,89	442	159	0.78	0.048860	18.08	2,492	1,220	3,712	4,492	2,466
4.81         4.93         443         159         0.78         0.049301         18.09         2.497         1.217         3.714         4.497         2.465           4.84         4.96         444         159         0.78         0.049598         18.09         2.502         1.217         3.714         4.497         2.465           4.84         4.96         444         159         0.78         0.049598         18.09         2.502         1.217         3.719         4.502         2.468           4.86         4.98         445         160         0.79         0.049813         18.10         2.507         1.214         3.721         4.507         2.467           4.89         5.01         446         160         0.79         0.050110         18.10         2.512         1.214         3.726         4.512         2.470	ŀ	4,79	4,91	442	159	0.78	0.049075	18.08	2,492	1,220	3,711	4,492	2,466
4.84         4.96         444         159         0.78         0.049598         18.09         2.502         1.217         3.719         4.502         2.468           4.86         4.98         445         160         0.79         0.049813         18.10         2.507         1.214         3.721         4.507         2.467           4.89         5.01         446         160         0.79         0.050110         18.10         2.512         1.214         3.726         4.512         2.467	ŀ	4.81	4.93	443	159	0.78	0.049301	18.09	2 497	1 217	3 714	4.497	2465
4.86         4.98         445         160         0.79         0.049813         18.10         2.507         1.214         3.721         4.507         2.467           4.89         5.01         446         160         0.79         0.050110         18.10         2.512         1.214         3.726         4.512         2.467	ŀ	4,84	4,96	444	159	0.78	0.049598	18.09	2.502	1,217	3,719	4,502	2.468
4.89 5.01 446 160 0.79 0.050110 18.10 2.512 1.214 3.726 4.517 2.407	ŀ	4.86	4.99	445	160	0.79	0.049819	18 10	2 507	1 214	3 721	4 507	2,467
The second	ŀ	4.89	5.01	446	160	0.79	0.050110	18 10	2 512	1214	3,726	4 512	2,470

	Deform.	Celda	Presión	Incremento		Åres	Infuerro	13	a'1	:1	Erfuerzo
Deformación	Unitaria	Carga	de poros	deporos	Deform.	Corregida	Dervindor	Electivo	Efectivo	Total	Promedio
(mm)	*	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kg(/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
4.91	5.03	446	160	0.79	0.050825	18.11	2.511	1.214	3.725	4.511	2.470
4.94	5.06	447	160	0.79	0.050622	18.11	2.516	1.211	3.727	4.516	2.469
4.96	5.08	448	160	0.79	0.050847	18.12	2.521	1.211	3,732	4.521	2,472
4.99	5.11	448	160	0.79	0.051062	18.12	2.520	1.208	3,729	4.520	2,469
5.01	5.14	450	160	0.79	0.051359	18.13	2.531	1.208	3,739	4,531	2,474
5.04	5.17	450	161	0.79	0.051656	18.13	2.530	1.205	3.736	4.530	2.471
5.06	5.19	451	161	0.79	0.051872	18.14	2.535	1.206	3.741	4.535	2.473
5.09	5.22	451	161	0.79	0.052169	18.14	2.534	1.206	3,740	4.534	2,473
5.12	5.24	453	161	0.80	0.052394	18.15	2.545	1.203	3.748	4.545	2.475
5.14	5.26	454	161	0.80	0.052609	18.15	2.550	1.203	3.753	4.550	2.478
5.17	5.29	454	161	0.80	0.052906	18.15	2.549	1.200	3.749	4.549	2.475
5.19	5.32	455	161	0.80	0.053203	18.16	2.554	1.200	3.754	4.554	2.477
5.22	5.34	455	161	0.80	0.053418	18.16	2.553	1.200	3.753	4.553	2.477
5.24	5.37	456	161	0.80	0.053715	18.17	2.558	1.197	3.756	4.558	2.476
5.27	5.39	457	161	0.80	0.053930	18.17	2.563	1.197	3.761	4.563	2.479
5.29	5.42	457	161	0.80	0.054228	18.18	2.562	1.197	3.760	4.562	2.479
5.32	5.45	458	162	0.81	0.054453	18.18	2.567	1.195	3.762	4.567	2.478
5.34	5.47	458	162	0.81	0.054740	18.19	2.567	1.195	3.761	4.567	2.478
5.37	5.50	459	162	0.81	0.054965	18.19	2.572	1.192	3.763	4.572	2.478
5.40	5.53	460	162	0.81	0.055262	18.20	2.576	1.192	3.768	4.576	2.480
5.42	5.55	460	162	0.81	0.055477	18.20	2.576	1.192	3.768	4.576	2.480
5.44	5.57	462	162	0.81	0.055703	18.21	2.586	1.189	3.775	4.586	2.482
5.47	5.60	462	162	0.81	0.056000	18.21	2.586	1.189	3.775	4.586	2.482
5.49	5.62	464	162	0.81	0.056215	18.22	2.596	1.189	3.785	4.596	2.487
5.51	5.64	466	162	0.81	0.056440	18.22	2.607	1.189	3.796	4.607	2.492
5.54	5.67	466	162	0.81	0.056727	18.23	2.606	1.185	3.792	4.606	2.489
5.56	5.70	467	162	0.81	0.056952	18.23	2.611	1.186	3.797	4.611	2.492
5.59	5.72	468	162	0.81	0.057249	18.24	2.616	1.186	3.802	4.616	2.494
5.61	5.75	469	163	0.82	0.057464	18.24	2.621	1.183	3.804	4.621	2.494
5.63	5.77	470	163	0.82	0.057690	18.25	2.626	1.183	3.809	4.626	2.496
5.66	5.80	471	163	0.82	0.057977	18.25	2.630	1.183	3.814	4.630	2.499
5.68	5.82	472	163	0.82	0.058202	18.26	2.635	1.183	3.819	4.635	2.501
5.71	5.85	473	163	0.82	0.058499	18.25	2.640	1.181	3.821	4.640	2.501
5.73	5.87	474	163	0.82	0.058714	18.27	2.645	1.181	3.826	4.645	2.503
5.75	5.89	475	163	0.82	0.058939	18.27	2.650	1.181	3.831	4.650	2.506
5.78	5.92	477	163	0.82	0.059155	18.28	2.661	1.178	3.838	4.661	2.508
5.80	5.95	478	163	0.82	0.059452	18.28	2.665	1.178	3.843	4.665	2.510
5.83	5.97	479	163	0.82	0.059677	18.29	2.670	1.178	3.848	4.670	2.513
5.85	5.99	480	163	0.82	0.059892	18.29	2.675	1.178	3.853	4.675	2.515
5.88	6.02	481	163	0.82	0.060189	18.30	2.680	1.178	3.858	4.680	2.518
5.90	6.04	482	164	0.82	0.060414	18.30	2.685	1.175	3.860	4.685	2.517
5.92	6.06	483	164	0.82	0.060630	18.30	2.690	1.175	3.865	4.690	2.520
5.94	6.09	484	164	0.82	0.060855	18.31	2.695	1.175	3.870	4.695	2.522
5.97	6.11	485	164	0.82	0.061142	18.31	2.700	1.175	3.875	4.700	2.525
5.99	6.14	485	164	0.83	0.061367	18.32	2.699	1.172	3.871	4.699	2.522
6.02	6.17	487	164	0.83	0.061664	18.32	2.709	1.172	3.881	4,709	2.527
6.05	6.20	487	164	0.83	0.061951	18.33	2.708	1.172	3.881	4.708	2.526
6.07	6.22	487	164	0.83	0.062176	18.33	2.708	1.172	3.880	4.708	2.526
6.10	6.25	487	164	0.83	0.062473	18.34	2.707	1.172	3.879	4.707	2.526
6.13	6.28	487	164	0.83	0.062760	18.35	2.706	1.169	3.875	4.706	2.522
6.15	6.30	489	164	0.83	0.062985	18.35	2.716	1.169	3.886	4.716	2.528
6.17	6.32	490	164	0.83	0.063201	18.35	2.721	1.169	3.891	4.721	2.530

	Deform.	Celda	Presión	Incremento		Åres	Estuario	a'3	11	=1	Erfuerzo
Deformación	Unitaria	Cargo	de poros	deporos	Deform.	Corregida	Dervision	Bectivo	Electivo	Total	Promedio
(mm)	*	N	(kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(hgt/cm <sup>2</sup> )	(hgt/cm <sup>2</sup> )
6.20	6.35	490	164	0.83	0.063498	18.36	2.721	1.169	3,890	4.721	2.530
6.22	6.37	491	164	0.83	0.063723	18.36	2.725	1.169	3.895	4.725	2.532
6.25	6.40	491	164	0.83	0.064010	18.37	2.725	1.169	3.894	4,725	2.532
6.28	6.43	491	164	0.83	0.064307	18.38	2.724	1.167	3.890	4.724	2.529
6.31	6.46	491	164	0.83	0.064604	18.38	2.723	1.167	3,890	4.723	2.528
6.34	6.49	491	164	0.83	0.064901	18.39	2.722	1.167	3.889	4.722	2.528
6.36	6.51	491	164	0.83	0.065116	18.39	2.721	1.167	3.888	4.721	2.527
6.39	6.54	491	165	0.84	0.065413	18.40	2.720	1.164	3.884	4.720	2.524
6.42	6.57	491	164	0.83	0.065710	18.40	2.720	1.167	3.886	4.720	2.526
6.45	6.61	492	164	0.83	0.066079	18.41	2.724	1.167	3,891	4.724	2.529
6.47	6.63	492	164	0.83	0.066294	18.42	2.723	1.167	3.890	4.723	2.528
6.50	6.66	493	165	0.84	0.066591	18.42	2.728	1.164	3.892	4.728	2.528
6.53	6.69	493	165	0.84	0.066888	18.43	2.727	1.164	3.891	4.727	2.528
6.55	6.71	494	165	0.84	0.067103	18.43	2.732	1.164	3.896	4.732	2.530
6.58	6.74	494	165	0.84	0.067400	18.44	2.731	1.164	3.895	4.731	2.530
6.60	6.76	495	165	0.84	0.067615	18.44	2.736	1.164	3.900	4.736	2.532
6.62	6.78	496	165	0.84	0.067841	18.45	2.741	1.164	3.905	4.741	2.534
6.65	6.81	495	165	0.84	0.068138	18.45	2.735	1.161	3.896	4.735	2.528
6.68	6.84	496	165	0.84	0.068425	18.46	2.739	1.164	3,903	4.739	2.534
6.71	6.87	496	165	0.84	0.068722	18.46	2.738	1.161	3.900	4.738	2.530
6.73	6.89	496	165	0.84	0.068947	18.47	2.738	1.161	3.899	4.738	2.530
6.76	6.92	496	165	0.84	0.069234	18.47	2.737	1.161	3.898	4.737	2.530
6.78	6.95	496	165	0.84	0.069459	18.48	2.736	1.161	3.897	4.736	2.529
6.81	6.98	496	165	0.84	0.069756	18.48	2.735	1.161	3.897	4.735	2.529
6.84	7.00	495	165	0.84	0.070043	18.49	2.729	1.161	3.890	4.729	2.526
6.87	7.03	496	165	0.84	0.070340	18.50	2.734	1.161	3.895	4.734	2.528
6.90	7.06	496	165	0.84	0.070637	18.50	2.733	1.161	3.894	4.733	2.528
6.92	7.09	496	165	0.84	0.070852	18.51	2.732	1.161	3,893	4.732	2.527
6.95	7.11	496	165	0.84	0.071149	18.51	2.731	1.161	3.892	4.731	2.527
6.97	7.14	495	165	0.84	0.071375	18.52	2.725	1.161	3.886	4.725	2.524
7.00	7.17	496	165	0.84	0.071661	18.52	2.730	1.161	3.891	4.730	2.526
7.03	7.20	496	165	0.84	0.071959	18.53	2.729	1.158	3.887	4.729	2.523
7.05	7.23	496	165	0.84	0.072256	18.53	2.728	1.161	3.889	4.728	2.525
7.08	7.25	497	165	0.84	0.072471	18.54	2.733	1.161	3.894	4.733	2.528
7.10	7.27	496	165	0.84	0.072696	18.54	2.727	1.158	3.885	4.727	2.522
7.13	7.30	496	165	0.84	0.072993	18.55	2.726	1.158	3.884	4.726	2.521
7.15	7.32	496	165	0.84	0.073208	18.55	2.725	1.158	3.884	4.725	2.521
7.18	7.35	497	165	0.84	0.073505	18.56	2.730	1.161	3.891	4.730	2.526
7.20	7.37	498	165	0.84	0.073731	18.56	2.735	1.161	3,896	4.735	2.528
7.22	7.39	498	165	0.84	0.073946	18.57	2.734	1.158	3.892	4.734	2.525
7.25	7.42	500	165	0.84	0.074243	18.57	2.744	1.158	3.902	4.744	2.530
7.27	7.45	500	165	0.84	0.074458	18.58	2.744	1.158	3.902	4.744	2.530
7.30	7.48	500	165	0.84	0.074755	18.58	2.743	1.158	3.901	4.743	2.530
7.32	7.50	502	165	0.84	0.074980	18.59	2.753	1.158	3.911	4.753	2.535
7.34	7.52	502	165	0.84	0.075195	18.59	2.752	1.158	3.911	4.752	2.534
7.37	7.55	502	165	0.84	0.075492	18.60	2.751	1.158	3.910	4.751	2.534
7.39	7.57	502	165	0.84	0.075718	18.60	2.751	1.158	3.909	4.751	2.534
7.41	7.59	503	165	0.84	0.075933	18.61	2.756	1.158	3.914	4.756	2.535
7.44	7.62	504	165	0.84	0.076230	18.61	2.760	1.158	3.919	4.760	2.538
7.46	7.64	503	165	0.84	0.076445	18.62	2.754	1.161	3.915	4.754	2.538
7.49	7.67	504	165	0.84	0.076670	18.62	2.759	1.161	3.920	4.759	2.541
7.51	7.69	504	165	0.84	0.076886	18.63	2.758	1.161	3.919	4.758	2.540

	Deform.	Celda	Presión	Incremento		Åres	Estuerzo	13	- 61	:1	Erfuerzo
Deformación	Unitaria	Carea	de norm	denorma	Deform.	Cornerida	Developer	Dection	Herther	Total	Promedia
(mm)		N	(kPa)	(hetlen?)	Unitaria	(cm <sup>2</sup> )	Burtlem?)	(kat/cm <sup>2</sup> )	(ket/cm <sup>2</sup> )	(kat/cm <sup>2</sup> )	(het(cm <sup>2</sup> )
7.50	7.74	C/NC	4.00	A 64	0.0771111	40.00	2.200	4.464	2.024	4 76 9	2 CY2
7.55	7.74	505	105	0.04	0.077408	10.00	2,703	1 161	2,324	4,763	2.545
7.50	2.25	200	4.00	0.04	0.0077400	40.04	3,702	4.404	0.000	4.762	0.000
7.59	7.00	500	105	0.04	0.077993	10.09	2.707	1.101	3.320	4.707	2.344
7.04	7.00	207	100	0.04	0.077992	10.00	2.371	1.101	3,332	4.774	2.347
7.64	7.82	507	165	0.84	0.078217	18.65	2.771	1.161	3.932	4.771	2.540
7.00	7.09	500	100	0.04	0.079739	10.00	2.775	1.101	3.337	4.775	2.349
7.00	7.07	207	100	0.04	0.070723	10.00	2.700	1.101	3,330	4,700	0.040
7.71	7.30	500	100	0.04	0.078170	10.07	2.779	1.101	3,333	4,779	2,390
7.73	7.34	200	100	0.04	0.073170	10.07	2.373	1.101	3.334	4,773	2.340
7.75	7.94	507	165	0.84	0.079595	18.55	2.767	1.161	3.928	4.767	2.545
7.00	7.30	500	100	0.04	0.079610	10.00	2.771	1.101	3,330	4.774	2.350
7.00	7.33	200	100	0.04	0.073907	10.00	2.771	1.101	3.332	4.771	2.347
7.82	8.01	509	105	0.84	0.080133	18.05	2.776	1.161	3.937	4.776	2.549
7.04	0.00	500	100	0.04	0.000040	10.70	2.113	1.101	3,330	4.775	2.349
7.87	8.05	509	165	0.84	0.080573	18.70	2.374	1.161	3.935	4.774	2.548
7.89	8.09	510	165	0.84	0.080850	18.71	2.379	1.161	3,940	4.779	2.551
7.92	8.12	509	165	0.84	0.081157	18.71	2.773	1.161	3,934	4.773	2.547
7.95	8.15	511	165	0.84	0.081454	18.72	2,783	1.161	3.944	4.783	2.552
7.97	8.17	511	165	0.84	0.081669	18.72	2.782	1.161	3.943	4.782	2.552
8.00	8.20	512	165	0.84	0.081966	18.73	2.787	1.161	3.948	4.787	2.554
8.02	8.22	513	165	0.84	0.082192	18.73	2.791	1.161	3.952	4.791	2.557
8.05	8.24	513	165	0.84	0.082407	18.74	2.791	1.164	3.955	4.791	2.559
8.07	8.27	514	165	0.84	0.082704	18.74	2.795	1.164	3.959	4.795	2.561
8.10	8.29	514	165	0.84	0.082919	18.75	2.795	1.161	3.956	4.795	2.558
8.12	8.32	515	165	0.84	0.083216	18.76	2.799	1.164	3,963	4.799	2.563
8.15	8.34	516	165	0.84	0.083441	18.76	2.804	1.164	3.968	4.804	2.566
8.17	8.37	516	165	0.84	0.083656	18.76	2.803	1.164	3.967	4.803	2.565
8.19	8.39	516	165	0.84	0.083882	18.77	2.803	1.164	3.966	4.803	2.565
8.22	8.42	516	165	0.84	0.084179	18.77	2.802	1.164	3.965	4.802	2.565
8.25	8.45	517	165	0.84	0.084465	18.78	2.806	1.164	3.970	4,806	2.567
8.27	8.47	518	165	0.84	0.084691	18.79	2.811	1.164	3.975	4.811	2.569
8.30	8.50	518	165	0.84	0.084988	18.79	2.810	1.164	3.974	4.810	2.569
8.33	8.53	521	165	0.84	0.085275	18.80	2.825	1.164	3.989	4.825	2.577
8.35	8.55	521	165	0.84	0.085500	18.80	2.825	1.164	3.989	4.825	2.576
8.38	8.58	522	165	0.84	0.085797	18.81	2.829	1.164	3,993	4.829	2.578
8.40	8.60	523	165	0.84	0.086012	18.81	2.834	1.164	3.998	4.834	2.581
8.43	8.63	523	164	0.83	0.086309	18.82	2.833	1.167	4.000	4.833	2.583
8.45	8.65	524	164	0.83	0.086524	18.82	2.838	1.167	4.004	4.838	2.586
8.48	8.68	524	165	0.84	0.086821	18.83	2.837	1.164	4.001	4.837	2.582
8.51	8.71	525	164	0.83	0.087118	18.84	2.841	1.167	4.008	4.841	2.587
8.53	8.73	525	164	0.83	0.087334	18.84	2.841	1.167	4.007	4.841	2.587
8.56	8.76	526	164	0.83	0.087631	18.85	2.845	1.167	4.012	4.845	2.589
8.58	8.79	527	164	0.83	0.087856	18.85	2.850	1.167	4.017	4.850	2.592
8.61	8.81	527	164	0.83	0.088143	18.85	2.849	1.167	4.016	4.849	2.591
8.63	8.84	528	164	0.83	0.088368	18.86	2.854	1.167	4.020	4.854	2.593
8.66	8.87	528	164	0.83	0.088665	18.87	2.853	1.167	4.019	4.853	2.593
8.68	8.89	529	164	0.83	0.088880	18.87	2.857	1.167	4.024	4.857	2.595
8.71	8.92	530	164	0.83	0.089177	18.88	2.862	1.167	4.029	4.862	2.598
8.74	8.95	530	164	0.83	0.089474	18.88	2.861	1.169	4.030	4.861	2.600
8.76	8.98	532	164	0.83	0.089761	18.89	2.871	1.169	4.040	4.871	2.605
8.79	9.01	531	164	0.83	0.090058	18.90	2.865	1.167	4.031	4.865	2.599
8.81	9.03	532	164	0.83	0.090284	18.90	2.869	1.169	4.039	4.869	2.604

	Deferm	Calda	Presiden	Incremento		Åres	Enforme	13	11	:1	Effuerzo
Deformación	Unitaria	Carga	de poros	deportos	Deform.	Correction	Dervision	Bectivo	Electivo	Total	Promedio
(mm)	*	N	(kPa)	(ket/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kuf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kg(/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kat/cm <sup>2</sup> )
0.04	9.05	620	164	0.92	0.000400	19.91	3 969	1 160	4.029	4 960	3 604
0.04	9.09	622	164	0.03	0.000206	19.91	3.969	1 160	4.097	4 959	3,602
0.00	0.11	699	104	0.03	0.001000	10.03	3.070	1 1 2 0	4.043	4 975	3 605
0.03	9.11	533	104	0.03	0.091093	10.32	2.072	1.103	4.042	4.072	2.003
0.91	0.10	233	104	0.00	0.001000	10.32	2.071	1.172	10.000	4.07.1	2.000
0.34	3.10	239	109	0.03	0.001800	10.33	2.0/0	1.172	4,050	4.070	2,010
0.37	9.10	232	109	0.03	0.0031430	10.35	2.000	1.172	4.053	4.000	2.012
0.33	9.21	535	109	0.03	0.092117	10.09	2.000	1.172	4.052	4.000	2.012
9.02	9.23	535	164	0.85	0.092343	18.94	2.879	1.172	4.051	4.8/9	2.612
3.04	9.20	232	109	0.85	0.002040	10.35	2.0/0	1.172	4.050	4.070	2.511
9.07	9.29	535	164	0.83	0.092855	18.95	2.8/7	1.1/2	4.049	4.877	2.611
9.09	9.52	5.30	164	0.83	0.093152	18.95	2.882	1.172	4.054	4.882	2.615
9.12	9.34	530	164	0.85	0.093449	18.97	2.881	1.1/2	4.053	4.881	2.615
9.14	9.37	537	164	0.82	0.093664	18.97	2.885	1.175	4.060	4.885	2.618
9.17	9.39	537	164	0.83	0.093889	18.98	2.885	1.172	4.057	4.885	2.615
9.19	9.42	537	164	0.82	0.094176	18.98	2.884	1.175	4.059	4.884	2.617
9.22	9.44	537	164	0.82	0.094401	18.99	2.883	1.175	4.058	4.883	2.617
9.25	9.47	537	164	0.82	0.094698	18.99	2.882	1.175	4.057	4.882	2.616
9.27	9,49	537	164	0.82	0.094914	19.00	2.881	1.175	4.056	4.881	2.616
9.29	9.51	537	164	0.82	0.095139	19.00	2.881	1.175	4.056	4.881	2.615
9.32	9.54	538	163	0.82	0.095436	19.01	2.885	1.178	4.063	4.885	2.620
9.35	9.57	539	164	0.82	0.095723	19.01	2.890	1.175	4.065	4.890	2.620
9.37	9.59	539	163	0.82	0.095948	19.02	2.889	1.178	4.067	4.889	2.622
9.40	9.62	539	163	0.82	0.096245	19.08	2.888	1.178	4.066	4,888	2.622
9.42	9.65	539	163	0.82	0.096460	19.03	2.887	1.178	4.065	4.887	2.621
9.44	9.67	539	163	0.82	0.096686	19.03	2.887	1.178	4.064	4.887	2.621
9.47	9.70	539	163	0.82	0.096972	19.04	2.886	1.178	4.063	4.886	2.621
9.49	9.72	539	163	0.82	0.097198	19.05	2.885	1.178	4.063	4.885	2.620
9.52	9.75	539	163	0.82	0.097495	19.05	2.884	1.178	4.062	4.884	2.620
9.54	9.77	538	163	0.82	0.097710	19.06	2.878	1.178	4.056	4.878	2.617
9.57	9.80	539	163	0.82	0.098007	19.06	2.882	1.181	4.063	4.882	2.622
9.59	9.82	538	163	0.82	0.098232	19.07	2.876	1.181	4.057	4.876	2.619
9.62	9.85	539	163	0.82	0.098519	19.07	2.881	1.181	4.061	4.881	2.621
9.64	9.87	538	163	0.82	0.098745	19.08	2.875	1.181	4.055	4.875	2.618
9.67	9.90	538	163	0.82	0.099042	19.08	2.874	1.181	4.054	4.874	2.617
9.69	9.93	539	163	0.82	0.099257	19.09	2.878	1.183	4.062	4.878	2.623
9.71	9.95	538	163	0.82	0.099482	19.09	2.872	1.183	4.056	4.872	2.620
9.74	9.98	539	163	0.82	0.099769	19.10	2.877	1.183	4.060	4.877	2.622
9.76	10.00	539	163	0.82	0.099994	19.10	2.876	1.183	4.059	4.876	2.621
9.79	10.03	539	163	0.82	0.100291	19.11	2.875	1.183	4.058	4.875	2.621
9.82	10.06	539	162	0.81	0.100578	19.12	2.874	1.186	4.060	4.874	2.623
9.84	10.08	538	162	0.81	0.100803	19.12	2.868	1.185	4.054	4.868	2.620
9.86	10.10	539	162	0.81	0.101019	19.13	2.873	1.185	4.059	4.873	2.623
9.88	10.12	539	162	0.81	0.101244	19.13	2.872	1.186	4.058	4.872	2.622
9.91	10.15	539	162	0.81	0.101541	19.14	2.871	1.186	4.057	4.871	2.622
9.94	10.18	539	162	0.81	0.101828	19.14	2.870	1.185	4.056	4.870	2.621
9.96	10.21	539	162	0.81	0.102053	19.15	2.869	1.185	4.056	4.869	2.621
9.99	10.23	539	162	0.81	0.102278	19.15	2.869	1.185	4.055	4.869	2.621
10.01	10.26	539	162	0.81	0.102565	19.16	2.868	1.189	4.057	4.868	2.623
10.04	10.28	539	162	0.81	0.102791	19.16	2.867	1,189	4,056	4,867	2,622
10.06	10.30	540	162	0.81	0.103006	19.17	2.872	1.189	4.061	4.872	2.625
10.09	10 33	540	162	0.81	0.103303	19.18	2,871	1 189	4,060	4,871	2,624
10.11	10.36	540	162	0.81	0.103600	19.18	2.870	1.189	4.059	4.870	2.624

	Delarm	Califa	Practice	Incremento		Area	Lafuerzo.	13	11	11	Erfuerzo
Deformación	lisiteda	Carga	de norm	deporte	Deform.	Correction	Description	Harther	Dection	Total	Promedia
(mm)	s	N	(kPa)	(ket/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kat/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(ket/cm <sup>2</sup> )
10.14	10.38	540	162	0.81	0.103815	19.19	2.869	1 192	4.061	4,869	2.626
10.16	10.41	540	162	0.81	0.104112	19.19	2.868	1.192	4.060	4.868	2.626
10.19	10.43	540	162	0.81	0.104337	19.20	2.867	1.192	4.059	4,867	2.625
10.21	10.46	540	162	0.81	0.104624	19.20	2.866	1.192	4.058	4,866	2.625
10.24	10.48	540	162	0.81	0.104849	19.21	2.866	1.192	4.057	4,866	2.625
10.27	10.51	540	162	0.81	0.105147	19.21	2.865	1.192	4.057	4.865	2.624
10.29	10.54	540	162	0.81	0.105433	19.22	2.864	1.195	4.058	4.864	2.626
10.32	10.57	540	162	0.81	0.105659	19.23	2.863	1.195	4.058	4.863	2.626
10.34	10.59	541	162	0.81	0.105884	19.23	2.868	1.192	4.059	4.868	2.626
10.37	10.62	542	162	0.81	0.106171	19.24	2.872	1.195	4.067	4.872	2.631
10.39	10.64	542	162	0.81	0.106396	19.24	2.871	1.195	4.066	4.871	2.630
10.41	10.66	543	162	0.81	0.106611	19.25	2.876	1.195	4.071	4.876	2.633
10.44	10.69	543	162	0.81	0.106908	19.25	2.875	1.195	4.070	4.875	2.632
10.46	10.71	544	161	0.80	0.107134	19.26	2.880	1.197	4.077	4.880	2.637
10.48	10.73	545	161	0.80	0.107349	19.26	2.884	1.197	4.082	4.884	2.639
10.51	10.76	545	161	0.80	0.107646	19.27	2.883	1.197	4.081	4.883	2.639
10.53	10.79	546	161	0.80	0.107861	19.27	2.888	1.200	4.088	4.888	2.644
10.55	10.81	546	161	0.80	0.108086	19.28	2.887	1.197	4.084	4.887	2.641
10.57	10.83	547	161	0.80	0.108312	19.28	2.892	1.197	4.089	4.892	2.643
10.60	10.85	548	161	0.80	0.108527	19.29	2.896	1.200	4.096	4.896	2.648
10.62	10.88	549	161	0.80	0.108752	19.29	2.901	1.200	4.101	4.901	2.651
10.64	10.90	550	161	0.80	0.108967	19.30	2.905	1.200	4.105	4.905	2.653
10.67	10.93	550	161	0.80	0.109264	19.30	2.904	1.200	4.105	4.904	2.652
10.70	10.96	550	161	0.80	0.109561	19.31	2.903	1.200	4.104	4.903	2.652
10.72	10.98	551	161	0.80	0.109848	19.32	2.908	1.203	4.111	4.908	2.657
10.75	11.01	552	161	0.80	0.110074	19.32	2.912	1.203	4.115	4.912	2.659
10.77	11.03	553	161	0.80	0.110289	19.33	2.917	1.203	4.120	4.917	2.661
10.80	11.06	554	161	0.80	0.110586	19.33	2.921	1.203	4.124	4.921	2.663
10.82	11.08	555	161	0.80	0.110811	19.34	2.926	1.203	4.129	4.926	2.665
10.84	11.10	555	161	0.80	0.111026	19.34	2.925	1.203	4.128	4.925	2.665
10.86	11.13	556	161	0.80	0.111251	19.35	2.930	1.203	4.132	4.930	2.668
10.89	11.15	556	161	0.80	0.111549	19.35	2.929	1.203	4.131	4.929	2.667
10.91	11.18	557	161	0.80	0.111764	19.36	2.933	1.203	4.136	4.933	2.669
10.94	11.21	558	161	0.79	0.112061	19.36	2.937	1.206	4.143	4.937	2.674
10.96	11.23	558	161	0.79	0.112276	19.37	2.937	1.206	4.142	4.937	2.674
10.98	11.25	559	161	0.79	0.112501	19.37	2.941	1.206	4.147	4.941	2.676
11.01	11.27	559	161	0.79	0.112727	19.38	2.940	1.206	4.146	4.940	2.676
11.03	11.29	559	160	0.79	0.112942	19.38	2.940	1.208	4.148	4.940	2.678
11.06	11.32	560	160	0.79	0.113239	19.39	2.944	1.208	4.152	4.944	2.680
11.07	11.34	561	160	0.79	0.113382	19.39	2.949	1.208	4.157	4.949	2.683
11.10	11.37	562	160	0.79	0.113679	19.40	2.953	1.208	4.162	4.953	2.685
11.13	11.40	563	160	0.79	0.113976	19.41	2.957	1.208	4.166	4.957	2.687
11.15	11.42	563	160	0.79	0.114191	19.41	2.957	1.208	4.165	4.957	2.687
11.18	11.45	564	160	0.79	0.114488	19.42	2.961	1.208	4.169	4.961	2.689
11.20	11.47	564	160	0.79	0.114703	19.42	2.960	1.208	4.169	4.960	2.689
11.23	11.50	564	160	0.79	0.115000	19.43	2.959	1.211	4.170	4.959	2.691
11.25	11.52	563	160	0.79	0.115226	19.43	2.953	1.211	4.164	4.953	2.688
11.28	11.55	563	160	0.79	0.115513	19.44	2.952	1.211	4.163	4.952	2.687
11.30	11.57	564	160	0.79	0.115738	19.44	2.957	1.211	4.168	4.957	2.690
11.33	11.60	563	160	0.79	0.116035	19.45	2.950	1.214	4.165	4.950	2.689
11.36	11.63	564	160	0.79	0.116322	19.46	2.955	1.214	4.169	4.955	2.691
11.39	11.66	564	160	0.79	0.116619	19.46	2.954	1.214	4.168	4.954	2.691

	Deform	Califa	Presión	Incremento		Åres	Lifuerto	13	11	=1	Erfuerzo
Deformación	Unitaria	Carga	de poros	deportos	Deform.	Correction	Derviedor	Electivo	Electivo	Total	Promedio
(mm)	5	N	(kPa)	(ket/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kat/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(bat/cm <sup>2</sup> )
11.41	11.60	660	160	0.78	0.116016	10.47	2.049	1.314	4 163	4 049	3600
11.44	11.00	564	160	0.75	0.110916	19.48	2.240	1.214	4.166	4,952	2,000
11.46	44.74	564	100	0.79	0.117439	10.40	2.051	1.314	4 100	4 051	2,000
11.40	11.79	204	160	0.73	0.117653	10.40	2.351	1.214	4,100	4.301	2,000
11.45	4447	263	4.00	0.73	0.117023	10.49	2.239	1.2.14	4.4.70	4.339	2.002
11.52	11.00	202	100	0.79	0.11/951	10.42	2.333	1.219	4,107	4,300	2.001
11.54	11.02	200	159	0.70	0.110100	10.50	2.353	1.217	4,120	4,303	2.000
11.57	11.00	207	1.39	0.70	0.110403	10.00	2.203	1.217	4.100	4.303	2.000
11.50	11.00	207	100	0.78	0.110/00	13.51	2.392	1.217	4.1/2	4.302	2,000
11.02	11.90	200	1.39	0.70	0.110047	10.02	2.307	1.217	9.103	4.307	2.700
11.04	11.73	207	100	0.78	0.119272	10.02	2.201	1.217	4.177	4.301	2,007
11.67	11.70	200	100	0.78	0.119909	10.00	2.393	1.227	4.102	4.363	2.000
11.65	11.70	200	1.39	0.70	0.1137.04	10.00	2.204	1.220	9.109	4,304	2.702
11.72	12.01	200	100	0.70	0.120061	10.09	2.203	1.220	4,100	4,303	2.701
11.75	12,09	200	139	0.70	0.120076	19.35	2.302	1.220	9.102	4.302	2.701
11.78	12.07	568	159	0.78	0.120665	19.55	2.961	1.220	4.181	4.961	2.700
11.80	12.09	200	159	0.78	0.120890	19.50	2.950	1.222	4.103	4,960	2.703
11.62	12.11	207	139	0.70	0.121105	13.30	2.334	1.000	4.177	4,304	2.700
11.85	12.14	566	159	0.78	0.121403	19.57	2.948	1.777	4.171	4.948	2,696
11.88	12.17	268	159	0.78	0.121700	19.58	2.958	1.222	4.180	4.958	2.701
11.91	12.20	567	159	0.78	0.121997	19.58	2.951	1.222	4.1/4	4.951	2.698
11.94	12.23	567	159	0.78	0.122283	19.59	2.950	1.222	4.173	4.950	2,698
11.97	12.26	566	159	0.77	0.122580	19.60	2.944	1.225	4.169	4.944	2,697
11.99	12.28	566	159	0.77	0.122806	19.60	2.943	1.225	4.169	4.943	2.697
12.02	12.31	565	159	0.77	0.123093	19.61	2.937	1.225	4.162	4.937	2.694
12.05	12.34	564	159	0.77	0.123390	19.61	2.931	1.225	4.156	4.931	2.691
12.08	12.37	564	159	0.77	0.123687	19.62	2.930	1.225	4.155	4.930	2.690
12.10	12.39	563	158	0.77	0.123902	19.63	2.924	1.228	4.152	4.924	2.690
12.13	12.42	562	158	0.77	0.124199	19.63	2.918	1.228	4.146	4.918	2.687
12.15	12.45	562	158	0.77	0.124496	19.64	2.917	1.228	4.145	4.917	2.687
12.18	12.48	561	158	0.77	0.124793	19.65	2.911	1.228	4.139	4.911	2.683
12.21	12.51	561	158	0.77	0.125080	19.65	2.910	1.228	4.138	4.910	2.683
12.24	12.54	560	158	0.77	0.125377	19.66	2.904	1.231	4.134	4.904	2.683
12.26	12.56	560	158	0.77	0.125602	19.66	2.903	1.228	4.131	4.903	2.679
12.29	12.59	561	158	0.77	0.125889	19.67	2.907	1.231	4.138	4.907	2.684
12.31	12.61	559	158	0.77	0.126114	19.68	2.896	1.231	4.127	4.896	2.679
12.34	12.64	560	158	0.77	0.126411	19.68	2.900	1.231	4.131	4.900	2.681
12.37	12.67	559	158	0.77	0.126698	19.69	2.894	1.231	4.125	4.894	2.678
12.39	12.69	560	158	0.77	0.126924	19.69	2.899	1.234	4.132	4.899	2.683
12.41	12.71	560	158	0.77	0.127139	19.70	2.898	1.234	4.131	4.898	2.682
12.44	12.74	560	158	0.77	0.127436	19.71	2.897	1.234	4.130	4.897	2.682
12.46	12.77	561	158	0.77	0.127661	19.71	2.901	1.234	4.135	4.901	2.684
12.49	12.79	560	158	0.77	0.127948	19.72	2.895	1.234	4.129	4.895	2.681
12.51	12.82	561	158	0.77	0.128173	19.72	2.900	1.234	4.133	4.900	2.683
12.53	12.84	561	157	0.76	0.128388	19.73	2.899	1.236	4.135	4.899	2.686
12.56	12.86	561	157	0.76	0.128614	19.73	2.898	1.236	4.134	4.898	2.685
12.59	12.89	561	157	0.76	0.128911	19.74	2.897	1.236	4.134	4.897	2.685
12.61	12.91	560	157	0.76	0.129126	19.74	2.891	1.236	4.128	4.891	2.682
12.63	12.94	561	157	0.76	0.129351	19.75	2.896	1.236	4.132	4.896	2.684
12.66	12.96	561	157	0.76	0.129648	19.76	2.895	1.239	4.134	4.895	2.686
12.68	12.99	561	157	0.76	0.129863	19.76	2.894	1.236	4.130	4.894	2.683
12.71	13.02	561	157	0.76	0.130160	19.77	2.893	1.239	4.132	4.893	2.686
12.73	13.04	561	157	0.76	0.130376	19.77	2.892	1.239	4.131	4.892	2.685

	Deform	Calda	Presiden	Incremento		Åren	Enforme	13	a'1	:1	Erfuerzo
Deformación	Unitaria	Corps	de poros	deportos	Deform.	Correction	Dervindor	Electivo	Electivo	Total	Promedio
(mm)	8	N	(kPa)	(kgt/cm <sup>2</sup> )	Uniteria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )
12.76	13.07	562	157	0.76	0.130573	19.78	2.896	1 239	4 136	4,896	2.687
12.78	13.09	561	157	0.76	0.130898	19.78	2.891	1 239	4 130	4.891	2.684
12.81	13.12	562	157	0.76	0.131185	19.79	2.895	1 242	4 137	4 995	2.689
12.83	13.14	563	157	0.76	0.131410	19.80	2.000	1 289	4 133	4 994	2.686
13.95	10.10	504	107	0.76	0.101000	10.90	3 000	1 343	4 100	4 000	2000
12.65	13.10	201	157	0.76	0.121033	10.00	2.000	1.292	4.130	4,000	2.000
12.90	13.21	563	157	0.76	0.132148	19.81	2.892	1 242	4 133	4,892	2.688
13.93	10.04	563	167	0.76	0.103060	10.92	3.001	1.040	4 199	4 994	2.000
12.92	10.29	202	157	0.76	0.132363	10.02	2.021	1.292	4,133	4,001	2.007
12.33	13.27	202	137	0.70	0.132000	13.02	2.000	1.040	4.133	4.000	2.000
12.37	13.23	204	137	0.76	0.122063	10.00	2.003	1.245	4.139	4,003	2.007
12.00	13.32	202	157	0.76	0.133172	10.04	2.000	1.245	4,133	4.000	2.002
13.02	13.34	202	137	0.70	0.133337	13.04	2.007	1.040	4.132	4.007	2.000
13.05	13.37	202	107	0.76	0.122029	10.05	2.000	1.245	4,131	4.000	2.000
13.07	13.33	503	137	0.70	0.133909	13.65	2.031	1.293	9.130	4.091	2.000
13.10	13.41	563	156	0.75	0.134135	19.85	2.890	1.247	4.138	4.890	2.695
13.12	13.44	564	156	0.75	0.134422	19.85	2.894	1.247	4.142	4.894	2.695
13.15	13.46	204	156	0.75	0.134647	19.87	2.893	1.247	4.141	4.893	2.094
13.17	13.49	565	156	0.75	0.134872	19.87	2.898	1.247	4.145	4.898	2.696
13.20	13.52	565	155	0.75	0.135159	19.88	2.897	1.247	4.144	4.897	2,695
13.22	13.54	566	155	0.75	0.135384	19.89	2.901	1.247	4.149	4.901	2.698
13.25	13.57	566	156	0.75	0.135682	19.89	2.900	1.247	4.148	4.900	2.698
13.27	13.59	566	156	0.75	0.135897	19.90	2.900	1.250	4.150	4.900	2.700
13.30	13.62	568	156	0.75	0.136194	19.91	2.909	1.250	4.159	4.909	2.705
13.33	13.65	568	156	0.75	0.136491	19.91	2.908	1.250	4.158	4.908	2.704
13.35	13.67	568	156	0.75	0.136706	19.92	2.907	1.250	4.157	4.907	2.704
13.38	13.70	569	156	0.75	0.137003	19.92	2.911	1.250	4.161	4.911	2.706
13.40	13.72	569	156	0.75	0.137218	19.93	2.910	1.250	4.161	4.910	2.706
13.43	13.75	570	156	0.75	0.137515	19.94	2.915	1.250	4.165	4.915	2.708
13.45	13.77	570	156	0.75	0.137740	19.94	2.914	1.250	4.164	4.914	2.707
13.48	13.80	571	156	0.75	0.138027	19.95	2.918	1.253	4.171	4.918	2.712
13.50	13.83	571	156	0.75	0.138253	19.95	2.917	1.253	4.170	4.917	2.712
13.52	13.85	571	156	0.75	0.138478	19.96	2.916	1.253	4.169	4.916	2.711
13.55	13.88	572	156	0.75	0.138765	19.96	2.921	1.253	4.174	4.921	2.713
13.57	13.90	572	156	0.74	0.138990	19.97	2.920	1.256	4.176	4.920	2.716
13.60	13.93	573	156	0.74	0.139287	19.98	2.924	1.256	4.180	4.924	2.718
13.63	13.96	573	156	0.75	0.139574	19.98	2.923	1.253	4.176	4.923	2.715
13.65	13.98	573	156	0.74	0.139799	19.99	2.922	1.256	4.178	4.922	2.717
13.68	14.01	574	156	0.74	0.140096	20.00	2.926	1.256	4.182	4.926	2.719
13.71	14.04	573	156	0.74	0.140383	20.00	2.920	1.256	4.176	4.920	2.716
13.73	14.06	574	156	0.74	0.140609	20.01	2.924	1.256	4.180	4.924	2.718
13.76	14.09	574	155	0.74	0.140906	20.01	2.923	1,259	4,182	4,923	2,720
13,78	14.12	574	156	0.74	0.141192	20.02	2.922	1.256	4.178	4,922	2.717
13.81	14.15	575	158	0.74	0.141489	20.03	2.927	1.256	4,182	4.927	2.719
13.84	14.17	575	155	0.74	0.141715	20.03	2,926	1,259	4,184	4,926	2,722
13.86	14.20	577	155	0.74	0.142002	20.04	2.935	1,259	4,194	4,935	2,726
13.89	14.92	576	155	0.74	0.142222	20.05	2 9 9 9	1 259	4 188	4 929	2 7 2 8
13.91	14.95	577	155	0.74	0.142524	20.05	2 933	1 259	4 192	4 933	2 7 2 5
13.94	14.28	577	155	0.74	0.142811	20.05	2 932	1 259	4 191	4.932	2 725
12.04	14.90	576	100	0.74	0.142024	20.06	2 0 2 6	1 361	4 199	4 036	2 7 7 5
12.00	14.30	570	100	0.74	0.140000	20.00	3,000	1 364	4,100	4,000	3 7 5 7
40.00	4,4,50	077	4.33	0.74	0.1495.10	20.00	3,030	4.004	4.434	4,000	3,727
14.01	14.33	577	133	0.74	0.143946	20.06	2.000	1.201	4,191	4,330	3,720
- 10 C	14.30			No. 7 1	1.113043	4144548	A	4-494	- A 3 3	- <b>1</b>	4-1-68

	Deform	Califa	Presiden	Incremento		Åres	Enforme	13	11	=1	Lifuerzo
Deformación	Unitaria	Carga	de poros	deporos	Deform.	Correction	Derviedor	Efectivo	Electivo	Total	Promedio
(mm)	56	N	(kPa)	(kgt/cm <sup>2</sup> )	Uniteria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(lat/cm <sup>2</sup> )	(hgt/cm <sup>2</sup> )
14.06	14.41	579	155	0.74	0.144060	20.09	2.938	1.261	4,200	4,938	2,730
14.09	14.44	578	155	0.74	0.144358	20.10	2.932	1.261	4.193	4.932	2.727
14.12	14.46	579	155	0.74	0.144583	20.10	2.936	1.261	4.198	4,936	2,730
14.14	14.49	579	155	0.74	0.144870	20.11	2.935	1.261	4.197	4.935	2.729
14.17	14.51	579	155	0.74	0.145095	20.11	2.935	1.264	4.199	4,935	2,731
14.19	14.53	580	155	0.74	0.145320	20.12	2.939	1.264	4.203	4.939	2.734
14.22	14.56	580	155	0.74	0.145607	20.12	2.938	1.264	4.202	4.938	2.733
14.24	14.59	581	155	0.74	0.145904	20.13	2.942	1.264	4.206	4.942	2.735
14.27	14.61	580	155	0.74	0.146130	20.14	2.936	1.264	4.200	4.936	2.732
14.29	14.64	581	155	0.74	0.146416	20.14	2.940	1.264	4.204	4.940	2.734
14.32	14.66	581	155	0.74	0.146642	20.15	2.939	1.264	4.204	4.939	2.734
14.35	14.69	581	154	0.73	0.146939	20.16	2.938	1.267	4.205	4.938	2.736
14.37	14.72	582	154	0.73	0.147154	20.16	2.943	1.267	4.210	4.943	2.738
14.40	14.75	581	154	0.73	0.147451	20.17	2.937	1.267	4.204	4.937	2.735
14.42	14.77	582	154	0.73	0.147666	20.17	2.941	1.267	4.208	4.941	2.737
14.44	14.79	582	154	0.73	0.147891	20.18	2.940	1.267	4.207	4.940	2.737
14.47	14.82	582	154	0.73	0.148188	20.19	2.939	1.267	4.206	4.939	2.737
14.49	14.84	582	154	0.73	0.148404	20.19	2.938	1.267	4.205	4.938	2.736
14.51	14.86	582	154	0.73	0.148629	20.20	2.938	1.270	4.207	4.938	2.739
14.54	14.89	582	154	0.73	0.148926	20.20	2.937	1.270	4.206	4.937	2.738
14.56	14.91	581	154	0.73	0.149141	20.21	2.931	1.270	4.201	4.931	2.735
14.58	14.94	581	154	0.73	0.149366	20.21	2.930	1.270	4.200	4.930	2.735
14.61	14.97	582	154	0.73	0.149653	20.22	2.934	1.270	4.204	4.934	2.737
14.64	15.00	582	154	0.73	0.149950	20.23	2.933	1.270	4.203	4.933	2.736
14.66	15.02	582	154	0.73	0.150176	20.23	2.932	1.270	4.202	4.932	2.736
14.69	15.05	581	154	0.73	0.150462	20.24	2.926	1.270	4.196	4.926	2.733
14.71	15.07	582	154	0.73	0.150688	20.24	2.930	1.270	4.200	4.930	2.735
14.74	15.10	582	154	0.73	0.150985	20.25	2.929	1.273	4.202	4.929	2.737
14.76	15.12	582	154	0.73	0.151200	20.26	2.929	1.273	4.201	4.929	2.737
14.78	15.14	583	154	0.73	0.151425	20.26	2.933	1.273	4.206	4.933	2.739
14.81	15.17	582	154	0.73	0.151712	20.27	2.927	1.273	4.200	4.927	2.736
14.83	15.19	583	154	0.73	0.151938	20.27	2.931	1.273	4.204	4.931	2.738
14.86	15.22	583	154	0.72	0.152163	20.28	2.930	1.275	4.206	4.930	2.741
14.88	15.24	583	154	0.73	0.152450	20.29	2.929	1.273	4.202	4.929	2.737
14.91	15.27	583	154	0.73	0.152675	20.29	2.929	1.273	4.201	4.929	2.737
14.93	15.30	583	154	0.72	0.152972	20.30	2.928	1.275	4.203	4.928	2.739
14.96	15.32	584	154	0.72	0.153187	20.30	2.932	1.275	4.207	4.932	2.741
14.98	15.34	584	154	0.72	0.153413	20.31	2.931	1.275	4.206	4.931	2.741
15.01	15.37	584	154	0.72	0.153699	20.32	2.930	1.275	4.205	4.930	2.740
15.03	15.39	584	154	0.72	0.153925	20.32	2.929	1.275	4.205	4.929	2.740
15.06	15.42	584	154	0.72	0.154222	20.33	2.928	1.275	4.204	4.928	2.740
15.08	15.44	585	153	0.72	0.154437	20.33	2.933	1.278	4.211	4.933	2.744
15.11	15.47	584	153	0.72	0.154734	20.34	2.927	1.278	4.205	4.927	2.741
15.13	15.50	584	153	0.72	0.154959	20.35	2.926	1.278	4.204	4.926	2.741
15.16	15.52	585	153	0.72	0.155246	20.35	2.930	1.278	4.208	4.930	2.743
15.18	15.55	585	153	0.72	0.155471	20.36	2.929	1.278	4.207	4.929	2.743
15.20	15.57	586	153	0.72	0.155687	20.36	2.933	1.278	4.211	4.933	2.745
15.23	15.60	585	153	0.72	0.155984	20.37	2.927	1.278	4.205	4.927	2.742
15.25	15.62	585	153	0.72	0.156209	20.38	2.926	1.281	4.207	4.926	2.744
15.28	15.65	586	153	0.72	0.156496	20.38	2.930	1.278	4.209	4.930	2.743
15.31	15.68	586	153	0.72	0.156793	20.39	2.929	1.281	4.210	4.929	2.746
15.33	15.70	587	153	0.72	0.157018	20.40	2.934	1.281	4.215	4.934	2.748

ľ		Deferm	Califa	Presiden	Incremento		Åres	Latverzo	13	11	- 11	Lifuerzo
	Deformación	Unitaria	Carga	de poros	deportos	Deform.	Correction	Derviedor	Electivo	Bectivo	Total	Promedio
	(mm)	5	N	(kPa)	(ket/cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kut/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(logf/cm <sup>2</sup> )	(kat/cm <sup>2</sup> )
ŕ	10.00	15.73	697	153	0.72	0.167333	30.40	2.022	1 3 9 1	4 314	4 022	3.747
ŀ	15.00	46.76	607	100	0.72	0.157530	20.41	2,022	1 391	4 3 1 2	4 923	3 747
ŀ	15.40	46.77	500	100	0.72	0.157745	20.41	2.026	1 391	4 3 1 2	4 026	3.740
ŀ	04.41	15.90	200	100	0.72	0.159043	20.42	2.239	1.201	4.316	4,339	3.742
ŀ	15.45	10.00	200	130	0.72	0.130042	20.42	2.935	1.001	4.2.10	4.333	2.740
ŀ	15,45	15.03	200	133	0.72	0.120200	20.43	2.239	1.201	4.213	4.334	2.740
ŀ	15.47	15.00	200	100	0.72	0.159993	20.45	2.009	1.201	4.224	4.334	2.790
ŀ	15.50	13.00	203	130	0.72	0.130/00	20.44	2.337	1.004	4.221	4.337	2.732
ŀ	15.52	15.90	590	153	0.72	0.159005	20.45	2.942	1.284	4.225	4.942	2.755
ŀ	15.34	15.92	590	133	0.72	0.159220	20.45	2.341	1.209	9.223	4.341	2.739
ŀ	15.57	15.95	591	155	0.72	0.159517	20.46	2.945	1.284	4.229	4.945	2.755
ŀ	15.60	15.98	591	153	0.72	0.159815	20.46	2.944	1.284	4.228	4.944	2.756
ŀ	15.62	16.00	392	133	0.72	0.150050	20.47	2.340	1.209	9.232	4.340	2.750
ŀ	15.85	16.03	592	153	0.72	0.160255	20.48	2.947	1.284	4.231	4.947	2.757
ŀ	15.67	16.05	594	152	0.71	0.150470	20.46	2.950	1.287	4.245	4.350	2.765
ŀ	15.69	16.07	594	152	0.71	0.160695	20.49	2.956	1.287	4.242	4.956	2.764
ŀ	15.72	16.10	595	152	0.71	0.160982	20.49	2.960	1.287	4.246	4.960	2.766
ŀ	15.75	16.13	595	152	0.71	0.161279	20.50	2.959	1.287	4.245	4,959	2.765
ŀ	15.77	16.15	596	152	0.71	0.161505	20.51	2.963	1.287	4.249	4.963	2.768
Ļ	15.79	16.17	596	152	0.71	0.161720	20.51	2.962	1.287	4.248	4.962	2.767
ŀ	15.81	16.19	597	152	0.71	0.161945	20.52	2.966	1.287	4.253	4.966	2.770
L	15.84	16.22	598	152	0.71	0.162242	20.52	2.970	1.287	4.257	4.970	2.772
L	15.86	16.25	599	152	0.71	0.162457	20.53	2.974	1.287	4.261	4.974	2.774
L	15.89	16.28	599	152	0.71	0.162754	20.54	2.973	1.287	4.260	4.973	2.773
L	15.91	16.30	600	152	0.71	0.162969	20.54	2.977	1.289	4.267	4.977	2.778
L	15.93	16.32	601	152	0.71	0.163195	20.55	2.982	1.289	4.271	4.982	2.780
	15.96	16.35	601	152	0.71	0.163492	20.55	2.981	1.289	4.270	4.981	2.780
L	15.98	16.37	602	152	0.71	0.163707	20.56	2.985	1.289	4.274	4.985	2.782
L	16.00	16.39	603	152	0.71	0.163932	20.57	2.989	1.289	4.278	4.989	2.784
I	16.03	16.41	604	152	0.71	0.164147	20.57	2.993	1.289	4.282	4.993	2.786
ſ	16.05	16.44	604	152	0.71	0.164444	20.58	2.992	1.289	4.281	4.992	2.785
ſ	16.08	16.47	605	152	0.71	0.164670	20.58	2.996	1.289	4.285	4.996	2.787
ſ	16.10	16.49	606	152	0.71	0.164885	20.59	3.000	1.289	4.290	5.000	2.789
ſ	16.12	16.51	607	152	0.71	0.165110	20.59	3.004	1.292	4.297	5.004	2.794
ſ	16.14	16.53	607	152	0.71	0.165325	20.60	3.004	1.292	4.296	5.004	2.794
ſ	16.17	16.56	608	152	0.71	0.165622	20.61	3.008	1.292	4.300	5.008	2.796
ſ	16.19	16.58	609	152	0.71	0.165848	20.61	3.012	1.292	4.304	5.012	2.798
ſ	16.22	16.61	609	152	0.71	0.166135	20.62	3.011	1.292	4.303	5.011	2.797
ľ	16.24	16.64	609	152	0.71	0.166360	20.63	3.010	1.292	4.302	5.010	2.797
ľ	16.27	16.67	609	152	0.71	0.166657	20.63	3.009	1.292	4.301	5.009	2.796
ŀ	16.29	16.69	609	152	0.71	0.166872	20.64	3.008	1.292	4.300	5.008	2,796
ŀ	16.33	16.72	609	152	0.71	0.167241	20.65	3.007	1,292	4,299	5.007	2,795
ŀ	16.35	16.75	609	152	0.71	0.167466	20.65	3.006	1,295	4.301	5.006	2,798
ŀ	16 38	16.78	608	152	0.71	0.167753	20.66	3,000	1 295	4.295	5,000	2 7 9 5
ŀ	16.41	16.81	609	152	0.71	0.168050	20.67	3,004	1,295	4,299	5.004	2,797
ŀ	16,44	16.83	608	152	0.71	0.168347	20.67	2.998	1,295	4,293	4,998	2,794
ŀ	16.46	16.85	608	152	0.71	0.168562	20.68	2,997	1,295	4,292	4,997	2,793
ŀ	16,49	16.89	608	152	0.71	0.168859	20.69	2,996	1,295	4,291	4,996	2,793
ŀ	16.51	16.91	607	152	0.71	0.169085	20.69	2,990	1,295	4,285	4,990	2,790
ŀ	16.54	16.94	608	151	0.70	0.169371	20.20	2 994	1 298	4 292	4 994	2 795
ŀ	16 56	16.97	607	151	0.70	0.169669	20.75	2.988	1,298	4.286	4,989	2,792
ŀ	16 60	17.00	600	464	0.70	0.169064	20.72	3,007	1 300	4 500	4,007	3 204
ŀ	16.63	17.00	607	101	0.70	0.120262	20.72	2.207	1 309	4 394	A 984	2.791
1	and the first state	ALC: NOTE: N	ALC: NOT ALC		Testa del Test	setting of the setting		10 x 10 10 10 10 10 10 10 10 10 10 10 10 10				allow of self-self-

	Deform	Califa	Braskin	Incremento		Årea	Enforme	613	11	=1	Eduerap
Deformación	Unitaria	Cargo	de poros	deportos	Deform.	Correction	Dervindor	Efectivo	Dectivo	Total	Promedio
(mm)	56	N	(kPa)	(kg//cm <sup>2</sup> )	Unitaria	(cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(hgt/cm <sup>2</sup> )
16.65	17.05	607	151	0.70	0.170549	20.73	2.985	1.298	4,283	4,985	2,790
16.67	17.08	607	151	0.70	0.170775	20.74	2.984	1.298	4.282	4.984	2.790
16,70	17.11	607	151	0.70	0.171072	20.74	2.983	1,298	4.281	4,983	2,789
16.73	17.14	607	151	0.70	0.171359	20.75	2.982	1.298	4,280	4.982	2.789
16.76	17.17	606	151	0.70	0.171656	20.76	2.976	1.300	4.276	4,976	2,788
16.79	17.20	606	151	0.70	0.171953	20.76	2.975	1.300	4.275	4.975	2.788
16.82	17.22	606	151	0.70	0.172240	20.77	2.974	1.300	4.274	4.974	2.787
16.84	17.25	606	151	0.70	0.172537	20.78	2.973	1.300	4.273	4.973	2.787
16.87	17.28	606	151	0.70	0.172762	20.79	2.972	1.300	4.272	4.972	2.786
16.89	17.30	606	151	0.70	0.173049	20.79	2.971	1.300	4.271	4.971	2.786
16.92	17.33	606	151	0.70	0.173346	20.80	2.970	1.300	4.270	4.970	2.785
16.95	17.36	606	151	0.70	0.173643	20.81	2.969	1.300	4.269	4.969	2.785
16.98	17.39	605	151	0.70	0.173940	20.81	2.963	1.300	4.263	4.963	2.782
17.00	17.42	605	151	0.70	0.174155	20.82	2.962	1.303	4.265	4.962	2.784
17.03	17.45	603	151	0.70	0.174452	20.83	2.951	1.303	4.254	4.951	2.779
17.06	17.47	603	151	0.70	0.174749	20.84	2.950	1.303	4.253	4.950	2.778
17.09	17.50	603	151	0.70	0.175036	20.84	2.949	1.303	4.252	4.949	2.778
17.12	17.53	603	151	0.70	0.175333	20.85	2.948	1.303	4.251	4.948	2.777
17.15	17.56	602	151	0.70	0.175630	20.86	2.942	1.303	4.245	4.942	2.774
17.17	17.58	601	151	0.70	0.175845	20.86	2.936	1.303	4.240	4.936	2.771
17.20	17.61	601	151	0.70	0.176142	20.87	2.935	1.303	4.239	4.935	2.771
17.23	17.64	601	151	0.69	0.176439	20.88	2.934	1.306	4.240	4.934	2.773
17.25	17.67	601	151	0.69	0.176736	20.89	2.933	1.306	4.239	4.933	2.773
17.28	17.70	602	151	0.69	0.177023	20.89	2.937	1.306	4.243	4.937	2.775
17.31	17.73	601	151	0.69	0.177320	20.90	2.931	1.306	4.237	4.931	2.772
17.33	17.75	601	151	0.69	0.177546	20.91	2.930	1.306	4.236	4.930	2.771
17.35	17.78	601	151	0.69	0.177761	20.91	2.930	1.306	4.236	4.930	2.771
17.38	17.81	600	151	0.69	0.178058	20.92	2.924	1.306	4.230	4.924	2.768
17.41	17.84	601	151	0.69	0.178355	20.93	2.928	1.306	4.234	4.928	2.770
17.43	17.86	601	150	0.69	0.178570	20.93	2.927	1.309	4.236	4.927	2.772
17.46	17.88	602	150	0.69	0.178795	20.94	2.931	1.309	4.240	4.931	2.774
17.48	17.91	601	150	0.69	0.179082	20.95	2.925	1.309	4.234	4.925	2.771
17.51	17.93	601	150	0.69	0.179307	20.95	2.924	1.309	4.233	4.924	2.771
17.53	17.96	602	150	0.69	0.179604	20.96	2.928	1.309	4.237	4.928	2.773
17.56	17.98	601	150	0.69	0.179820	20.96	2.922	1.309	4.231	4.922	2.770
17.58	18.00	602	150	0.69	0.180045	20.97	2.926	1.309	4.235	4.926	2.772
17.60	18.03	601	150	0.69	0.180260	20.98	2.921	1.312	4.232	4.921	2.772
17.63	18.06	602	150	0.69	0.180629	20.98	2.924	1.309	4.233	4.924	2.771
17.65	18.08	602	150	0.69	0.180782	20.99	2.924	1.309	4.233	4.924	2.771
17.67	18.10	601	150	0.69	0.180997	20.99	2.918	1.312	4.230	4.918	2.771
17.70	18.13	602	150	0.69	0.181295	21.00	2.922	1.312	4.234	4.922	2.773
17.72	18.15	601	150	0.69	0.181520	21.01	2.916	1.312	4.228	4.916	2.770
17.74	18.17	601	150	0.69	0.181735	21.01	2.916	1.314	4.230	4.916	2.772
17.76	18.20	602	150	0.69	0.181960	21.02	2.920	1.312	4.231	4.920	2.771
17.80	18.23	602	150	0.69	0.182329	21.03	2.918	1.312	4.230	4.918	2.771
17.82	18.25	602	150	0.69	0.182544	21.03	2.917	1.314	4.232	4.917	2.773
17.84	18.28	602	150	0.69	0.182770	21.04	2.917	1.314	4.231	4.917	2.773
17.87	18.31	603	150	0.69	0.183056	21.05	2.920	1.314	4.235	4.920	2.775
17.90	18.34	603	150	0.69	0.183353	21.05	2.919	1.314	4.234	4.919	2.774
17.92	18.36	603	150	0.69	0.183579	21.06	2.919	1.314	4.233	4.919	2.774
17.94	18.38	603	150	0.69	0.183794	21.07	2.918	1.314	4.232	4.918	2.773
17.97	18.41	603	150	0.69	0.184091	21.07	2.917	1.314	4.231	4.917	2.773

Unitaria         Corp.         Segres         Unitaria         Corregits         Pointabe         Birthin         Differin         Corregits         Pointabe         Birthin         Pointabe           17.99         18.43         603         150         0.69         0.184305         71.09         2.915         1.314         4.230         4.915         2.771           18.04         18.48         604         150         0.69         0.184757         71.09         2.915         1.314         4.230         4.915         2.774           18.07         18.50         604         149         0.68         0.185549         71.10         2.911         1.314         4.325         4.913         2.776           18.11         18.57         605         149         0.68         0.185005         71.12         2.914         1.317         4.348         4.904         2.779           18.13         18.57         605         149         0.68         0.186022         71.12         2.914         1.317         4.341         4.904         2.779           18.20         18.67         607         149         0.68         0.186025         71.12         2.911         1.317         4.344         4.92	ľ		Deform.	Celda	Presión	Incremento		Åres	Estuento	13	11	:1	Erfuerzo
Imm         N         N         (µr)         Nutlens/         (µr)         (µr)         µr(m)         µr(m) <thµr(m)< th=""> <thµr(m)< th=""></thµr(m)<></thµr(m)<>		Deformación	Unitaria	Cargo	de poros	deportos	Deform.	Correction	Dervindor	Electivo	Dectivo	Total	Promedio
17.99       18.45       603       150       0.69       0.194551       71.09       2.915       1.314       4.230       4.915       2.772         18.04       18.45       603       150       0.69       0.194551       71.09       2.915       1.314       4.230       4.915       2.774         18.07       18.50       604       149       0.68       0.185047       71.10       2.928       1.317       4.235       4.915       2.776         18.09       18.51       604       149       0.68       0.18509       71.11       2.926       1.317       4.245       4.292       2.779         18.13       18.57       605       149       0.68       0.18509       71.12       2.924       1.317       4.242       4.924       2.779         18.10       18.45       606       149       0.68       0.186502       71.12       2.924       1.317       4.242       4.941       2.779         18.20       18.7       607       149       0.68       0.18652       71.15       2.925       1.320       4.244       4.922       2.784         18.23       18.27       18.7       603       149       0.68       0.18771		(mm)	*	N	(kPa)	(kg!/cm <sup>2</sup> )	Unitaria	(cm²)	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(ligt/cm <sup>2</sup> )	(het/cm <sup>2</sup> )
18.02         18.84         603         150         0.09         0.184531         21.00         2.915         1.314         4.234         4.915         2.774           18.07         18.50         604         149         0.68         0.18255         21.00         2.918         1.317         4.235         4.919         2.776           18.09         18.83         604         149         0.68         0.185264         21.10         2.918         1.317         4.235         4.917         2.776           18.11         18.85         666         149         0.68         0.185264         21.11         2.921         1.317         4.243         4.921         2.779           18.18         18.80         666         149         0.68         0.186247         21.13         2.924         1.317         4.244         4.921         2.779           18.12         18.76         667         149         0.68         0.186267         21.15         2.931         1.320         4.244         4.921         2.779           18.22         18.70         667         149         0.68         0.18794         21.15         2.930         1.320         4.244         4.917         2.775     <	ſ	17.99	18.43	603	150	0.69	0.184306	21.08	2.916	1.314	4.230	4.916	2.772
18.04         18.84         504         150         0.69         0.184757         21.00         2.919         1.314         4.235         4.919         2.776           18.07         18.53         604         149         0.68         0.185044         21.10         2.917         1.317         4.235         4.918         2.776           18.13         18.55         605         149         0.68         0.185006         21.12         2.921         1.317         4.243         4.926         2.770           18.16         18.80         606         149         0.68         0.186006         21.11         2.924         1.317         4.242         4.924         2.779           18.16         18.80         606         149         0.68         0.186262         21.14         2.921         1.317         4.240         4.924         2.779           18.20         18.86         606         149         0.68         0.18627         11.15         2.921         1.317         4.240         4.927         2.778           18.22         18.70         607         149         0.68         0.18758         1.15         2.930         1.320         4.261         4.932         2.778 </td <td>ľ</td> <td>18.02</td> <td>18.45</td> <td>603</td> <td>150</td> <td>0.69</td> <td>0.184531</td> <td>21.09</td> <td>2.915</td> <td>1.314</td> <td>4.230</td> <td>4.915</td> <td>2.772</td>	ľ	18.02	18.45	603	150	0.69	0.184531	21.09	2.915	1.314	4.230	4.915	2.772
18.07         18.50         604         149         0.68         0.185269         21.10         2.918         1.317         4.225         4.918         2.776           18.09         18.53         604         149         0.68         0.185269         21.10         2.917         1.317         4.225         4.917         2.776           18.11         18.57         605         144         0.68         0.185269         71.12         2.921         1.317         4.242         4.924         2.2779           18.18         18.50         606         149         0.68         0.186222         71.13         2.924         1.317         4.244         4.924         2.2779           18.22         18.57         607         149         0.68         0.186257         2.114         1.927         1.317         4.244         4.927         2.781           18.22         18.70         607         149         0.68         0.18765         71.15         1.926         1.320         4.244         4.927         2.784           18.28         18.37         608         149         0.68         0.18779         71.16         1.929         1.320         4.244         4.922         2.784	ľ	18.04	18.48	604	150	0.69	0.184757	21.09	2.919	1.314	4.234	4.919	2.774
18.09         18.53         604         149         0.68         0.185269         21.10         2.971         1.317         4.285         4.902         2.776           18.11         18.57         605         144         0.68         0.18506         2.112         1.921         1.317         4.284         4.921         2.777           18.16         18.80         606         144         0.68         0.186006         2.112         2.924         1.317         4.242         4.924         2.777           18.16         18.80         606         144         0.68         0.186262         2.111         2.924         1.317         4.240         4.924         2.779           18.20         18.84         606         144         0.68         0.186662         2.111         2.921         1.317         4.244         4.927         2.781           18.22         18.77         607         149         0.68         0.187758         7.115         2.930         1.320         4.264         4.922         2.784           18.33         18.75         608         1449         0.68         0.187768         7.117         2.932         1.320         4.264         4.932         2.784	ľ	18.07	18.50	604	149	0.68	0.185044	21.10	2.918	1.317	4.235	4.918	2.776
18.11         18.55         605         149         0.68         0.18549         21.12         2.911         1.317         4.248         4.926         2.770           18.16         18.50         605         149         0.68         0.18500         1.11         2.921         1.317         4.242         4.924         2.777           18.16         18.54         605         149         0.68         0.188022         1.13         7.931         1.317         4.244         4.924         2.779           18.20         18.54         605         149         0.68         0.188647         7.113         7.933         1.317         4.244         4.927         2.781           18.25         18.76         607         149         0.68         0.186953         7.115         2.936         1.320         4.246         4.930         2.785           18.28         18.77         608         149         0.68         0.18784         7.118         2.931         1.320         4.252         4.932         2.786           18.30         18.27         602         149         0.68         0.18784         7.118         7.330         4.252         4.932         2.785           1	F	18.09	18.53	604	149	0.68	0.185269	21.10	2.917	1.317	4,235	4.917	2.776
18.13         18.57         605         149         0.68         0.185709         21.12         2.924         1.317         4.242         4.924         2.777           18.16         166         149         0.68         0.186020         21.12         2.924         1.317         4.241         4.924         2.779           18.28         18.45         605         149         0.68         0.188427         21.13         2.924         1.317         4.244         4.927         2.779           18.20         18.45         605         149         0.68         0.188652         21.14         2.927         1.317         4.246         4.927         2.781           18.25         18.70         607         149         0.68         0.18756         21.17         2.926         1.320         4.246         4.921         2.785           18.30         18.75         606         149         0.68         0.187789         21.18         2.931         1.320         4.251         4.931         2.785           18.40         18.85         610         149         0.68         0.188260         21.19         2.931         1.320         4.255         4.935         2.787	ľ	18.11	18.55	606	149	0.68	0.185484	21.11	2.926	1.317	4.243	4.926	2.780
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	F	18.13	18.57	605	149	0.68	0.185709	21.12	2.921	1.317	4.238	4.921	2.777
18.18         13.62         606         149         0.68         0.185222         21.13         2.934         1.317         4.241         4.924         2.779           18.20         18.67         607         149         0.68         0.186452         1.14         2.923         1.317         4.244         4.927         2.713           18.22         18.76         607         149         0.68         0.18959         2.115         2.925         1.330         4.246         4.927         2.781           18.28         18.76         608         149         0.68         0.187758         2.117         2.929         1.320         4.249         4.929         2.784           18.33         18.87         608         149         0.68         0.18778         2.117         2.923         1.320         4.251         4.931         2.785           18.38         18.83         601         149         0.68         0.188206         2.118         2.931         1.320         4.255         4.935         2.787           18.42         18.85         611         149         0.68         0.188243         2.112         2.943         1.320         4.255         4.938         2.787 </td <td>ľ</td> <td>18.16</td> <td>18.60</td> <td>606</td> <td>149</td> <td>0.68</td> <td>0.186006</td> <td>21.12</td> <td>2.924</td> <td>1.317</td> <td>4.242</td> <td>4.924</td> <td>2.779</td>	ľ	18.16	18.60	606	149	0.68	0.186006	21.12	2.924	1.317	4.242	4.924	2.779
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ľ	18.18	18.62	606	149	0.68	0.186222	21.13	2.924	1.317	4.241	4.924	2.779
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	r	18.20	18.64	606	149	0.68	0.186447	21.13	2.923	1.317	4.240	4,923	2.779
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	r	18.22	18.67	607	149	0.68	0.186662	21.14	2.927	1.317	4.244	4,927	2.781
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	r	18.25	18.70	607	149	0.68	0.186959	21.15	2.926	1.320	4.246	4.926	2.783
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ľ	18.28	18,73	608	149	0.68	0.187256	21.16	2.930	1.320	4.250	4,930	2.785
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ľ	18.30	18.75	608	149	0.68	0.187471	21.16	2.929	1.320	4.249	4.929	2.784
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	F	18.33	18,78	608	149	0.68	0.187768	21.17	2.928	1 320	4.248	4,928	2,784
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	F	18.35	18.80	609	149	0.68	0.187994	21.18	2.932	1.320	4.252	4,932	2.786
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	F	18.38	18.83	609	149	0.68	0.188280	21.18	2.931	1.320	4.251	4,931	2.785
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	r	18.40	18.85	610	149	0.68	0.188506	21.19	2.935	1.320	4.255	4,935	2,787
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	F	18.42	18.87	611	149	0.68	0.188721	21.19	2.939	1.320	4,259	4,939	2.789
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ŀ	18.45	18.89	611	149	0.68	0.188946	21.20	2.938	1.320	4,258	4,938	2.789
18.50         18.95         612         149         0.68         0.189458         21.21         2.941         1.323         4.264         4.941         2.793           18.53         18.98         613         149         0.68         0.189755         21.22         2.945         1.323         4.267         4.944         2.795           18.55         19.00         613         149         0.68         0.19028         2.123         2.944         1.323         4.267         4.944         2.795           18.56         19.06         614         149         0.68         0.190285         2.124         2.946         1.323         4.269         4.946         2.795           18.63         19.08         614         149         0.68         0.190790         21.25         2.946         1.323         4.264         4.946         2.795           18.68         19.13         615         149         0.68         0.191517         21.27         2.949         1.323         4.275         4.953         2.797           18.76         19.21         616         149         0.668         0.191211         21.28         2.951         1.323         4.273         4.950         2.798	r	18.48	18.92	612	149	0.68	0 189243	21.21	2.942	1 323	4 264	4 942	2 794
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ŀ	18.50	18.95	612	149	0.68	0.189458	21.21	2.941	1.323	4.264	4.941	2.793
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ŀ	18 53	18.98	613	149	0.68	0 189755	21.22	2.945	1 928	4.267	4.945	2 795
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	F	18.55	19.00	613	149	0.68	0 189981	21.28	2 944	1 323	4.267	4 944	2 795
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ŀ	18.58	19.03	613	149	0.68	0.190268	21.23	2.943	1.323	4.265	4.943	2,794
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ŀ	18.60	19.06	614	149	0.68	0 190565	21.24	2.946	1 323	4.269	4 946	2 796
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ŀ	18.63	19.08	614	149	0.68	0 190790	21.25	2.946	1 323	4 268	4 946	2 796
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ŀ	18.65	19.11	615	149	0.68	0 191077	21.26	2.949	1 9 2 8	4 272	4.949	2 797
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ŀ	18.68	1913	615	149	0.68	0.191302	21.26	2 949	1 323	4 271	4 949	2 797
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ŀ	18 70	1915	616	149	0.68	0 191517	21.27	2 953	1 323	4 275	4 953	2 799
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ŀ	18.73	19.18	616	149	0.68	0 191814	21.28	2 951	1 323	4 274	4.951	2 798
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ŀ	18.75	19.21	616	149	0.68	0.192111	21.28	2 950	1 323	4 273	4 950	2 798
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ŀ	18.78	19.23	617	149	0.67	0 193836	21.29	2 954	1 926	4 280	4 954	2,803
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ŀ	18.81	19.26	617	149	0.67	0.193634	21.90	2 953	1 326	4.279	4.953	2,802
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ŀ	18.83	19.29	618	149	0.67	0.192921	21.90	2 957	1 326	4 283	4.957	2.804
18.00 $19.31$ $610$ $149$ $0.67$ $0.193361$ $21.32$ $2.955$ $1.326$ $4.281$ $4.955$ $2.803$ $18.91$ $19.37$ $619$ $149$ $0.67$ $0.193361$ $21.32$ $2.955$ $1.326$ $4.281$ $4.955$ $2.803$ $18.93$ $19.39$ $619$ $149$ $0.67$ $0.193658$ $21.32$ $2.959$ $1.326$ $4.285$ $4.959$ $2.805$ $18.93$ $19.39$ $619$ $149$ $0.67$ $0.193873$ $21.33$ $2.958$ $1.326$ $4.284$ $4.958$ $2.805$ $18.96$ $19.42$ $620$ $148$ $0.67$ $0.194873$ $21.35$ $2.962$ $1.328$ $4.290$ $4.962$ $2.809$ $18.99$ $19.45$ $620$ $148$ $0.67$ $0.194467$ $21.35$ $2.961$ $1.328$ $4.289$ $4.961$ $2.809$ $19.04$ $19.50$ $621$ $148$ $0.67$ $0.194682$ $21.35$ $2.960$ $1.326$ $4.286$ $4.960$ $2.806$ $19.04$ $19.50$ $621$ $148$ $0.67$ $0.194979$ $21.36$ $2.964$ $1.328$ $4.292$ $4.964$ $2.810$ $19.06$ $19.52$ $621$ $149$ $0.67$ $0.195205$ $21.36$ $2.965$ $1.328$ $4.295$ $4.966$ $2.811$ $19.08$ $19.54$ $622$ $148$ $0.67$ $0.195717$ $21.38$ $2.966$ $1.328$ $4.294$ $4.966$ $2.811$ $19.13$ $19.59$ $622$ </td <td>ŀ</td> <td>10.00</td> <td>10.21</td> <td>610</td> <td>1.40</td> <td>0.67</td> <td>0.102126</td> <td>34.94</td> <td>3 054</td> <td>1 9 9 6</td> <td>4 393</td> <td>4 054</td> <td>3 904</td>	ŀ	10.00	10.21	610	1.40	0.67	0.102126	34.94	3 054	1 9 9 6	4 393	4 054	3 904
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ŀ	18.88	19.34	618	149	0.67	0.193361	21.32	2.955	1 326	4 281	4.955	2,803
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ŀ	10.00	10.07	610	1.40	0.67	0.103659	34.93	2.050	1 3 3 6	4 105	4 050	3 905
18.33         13.33         613         145         6.057         0.13603         11.33         1.356         1.316         4.164         4.556         1.365           18.96         19.42         620         148         0.67         0.194170         21.34         2.962         1.328         4.290         4.962         2.809           18.99         19.45         620         148         0.67         0.194467         21.35         2.961         1.328         4.289         4.961         2.809           19.01         19.47         620         149         0.67         0.194682         21.35         2.960         1.326         4.286         4.960         2.806           19.04         19.50         621         148         0.67         0.194979         21.36         2.964         1.328         4.292         4.964         2.810           19.06         19.52         621         149         0.67         0.195205         21.36         2.963         1.328         4.292         4.964         2.810           19.08         19.54         622         148         0.67         0.195717         21.38         2.966         1.328         4.294         4.966         2.811	ŀ	19.92	10.37	610	140	0.07	0.193030	21.32	2.000	1.329	4 194	4,353	2.00.3
18.30         13.41         610         146         0.07         0.19476         12.54         1.301         1.305         4.301         1.305           18.99         19.45         620         148         0.67         0.194467         21.35         2.961         1.328         4.289         4.961         2.809           19.01         19.47         620         149         0.67         0.194682         21.35         2.960         1.326         4.286         4.960         2.806           19.04         19.50         621         148         0.67         0.194979         21.36         2.964         1.328         4.292         4.964         2.810           19.06         19.52         621         149         0.67         0.195205         21.36         2.963         1.328         4.292         4.964         2.810           19.08         19.54         622         148         0.67         0.195205         21.38         2.965         1.328         4.294         4.966         2.811           19.11         19.57         622         148         0.67         0.195717         21.38         2.965         1.328         4.294         4.966         2.811	ŀ	10.05	10.43	630	1.49	0.67	0.104170	31.34	3.063	1 3 3 8	4 390	4.963	2,000
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ŀ	10.00	10.45	620	1.40	0.07	0.104467	34.05	3.005	1 3 3 8	4 399	4 06 1	3,000
13.01         13.07         6.00         149         0.07         0.194622         21.35         2.360         1.326         4.366         4.366         2.806           19.04         19.50         621         148         0.67         0.194979         21.36         2.964         1.328         4.292         4.964         2.810           19.06         19.52         621         149         0.67         0.195205         21.36         2.963         1.326         4.288         4.963         2.807           19.08         19.54         622         148         0.67         0.195205         21.37         2.967         1.328         4.295         4.964         2.810           19.11         19.57         622         148         0.67         0.195717         21.38         2.966         1.328         4.294         4.966         2.811           19.13         19.59         622         148         0.67         0.195932         21.38         2.965         1.328         4.293         4.965         2.811           19.16         19.62         623         148         0.67         0.196526         21.40         2.968         1.328         4.297         4.969         2.813	ŀ	10.33	10.43	620	140	0.07	0.104693	21.35	2.301	1.006	4,200	4,001	2.002
13.34         13.35         6.11         148         0.67         0.134975         21.36         2.364         1.325         4.325         4.364         2.364           19.06         19.52         621         149         0.67         0.195205         21.36         2.963         1.326         4.288         4.963         2.807           19.08         19.54         622         148         0.67         0.195205         21.37         2.967         1.328         4.295         4.967         2.812           19.11         19.57         622         148         0.67         0.195717         21.38         2.966         1.328         4.294         4.966         2.811           19.13         19.59         622         148         0.67         0.195932         21.38         2.965         1.328         4.293         4.965         2.811           19.16         19.52         623         148         0.67         0.195229         21.39         2.965         1.328         4.297         4.969         2.813           19.19         19.65         623         148         0.67         0.196526         21.40         2.968         1.328         4.296         4.968         2.812	ŀ	10.04	10.50	620	140	0.67	0.104002	21.35	2.000	1.320	4.200	4.300	2,000
15.06         15.52         6.11         14.9         0.07         0.155.05         21.36         1.326         4.365         4.365         2.807           19.08         19.54         622         148         0.67         0.195420         21.37         2.967         1.328         4.295         4.967         2.812           19.11         19.57         622         148         0.67         0.195717         21.38         2.966         1.328         4.294         4.966         2.811           19.13         19.59         622         148         0.67         0.195932         21.38         2.965         1.328         4.293         4.965         2.811           19.16         19.52         623         148         0.67         0.195229         21.39         2.969         1.328         4.297         4.969         2.813           19.19         19.65         623         148         0.67         0.196526         21.40         2.968         1.328         4.296         4.968         2.812           19.21         19.67         624         148         0.67         0.196741         21.41         2.972         1.328         4.300         4.972         2.814	ŀ	10.04	10.50	634	1.40	0.07	0.104073	34.06	2.009	1.006	4 100	4,000	2.010
19.11         19.57         622         148         0.67         0.195717         21.38         2.966         1.328         4.294         4.966         2.811           19.13         19.59         622         148         0.67         0.195717         21.38         2.966         1.328         4.294         4.966         2.811           19.13         19.59         622         148         0.67         0.195932         21.38         2.965         1.328         4.293         4.965         2.811           19.16         19.52         623         148         0.67         0.196229         21.39         2.969         1.328         4.297         4.969         2.813           19.19         19.65         623         148         0.67         0.196526         21.40         2.968         1.328         4.296         4.968         2.812           19.21         19.67         624         148         0.67         0.196741         21.41         2.972         1.328         4.300         4.972         2.814           19.23         19.70         623         148         0.67         0.196967         21.41         2.966         1.328         4.294         4.966         2.811	ŀ	19.08	19.54	622	149	0.67	0.195430	21.30	2 967	1 328	4 295	4.967	2.807
19.11         19.57         622         148         0.67         0.195717         21.36         2.965         1.328         4.294         4.966         2.811           19.13         19.59         622         148         0.67         0.195932         21.38         2.965         1.328         4.293         4.965         2.811           19.16         19.52         623         148         0.67         0.195229         21.39         2.969         1.328         4.297         4.969         2.813           19.19         19.55         623         148         0.67         0.19526         21.40         2.968         1.328         4.296         4.968         2.812           19.21         19.67         624         148         0.67         0.196741         21.41         2.972         1.328         4.300         4.972         2.814           19.23         19.70         623         148         0.67         0.196967         21.41         2.966         1.328         4.294         4.966         2.811           19.25         19.70         623         148         0.67         0.196967         21.41         2.966         1.328         4.294         4.966         2.811	ŀ	10.11	10.57	622	1.40	0.67	0.105717	34.99	3,044	1 2 2 2	4 304	4,000	3,944
19.15         19.55         623         148         0.67         0.19534         21.36         1.325         1.325         4.365         2.813           19.16         19.62         623         148         0.67         0.196229         21.39         2.969         1.328         4.297         4.969         2.813           19.19         19.55         623         148         0.67         0.196526         21.40         2.968         1.328         4.295         4.968         2.812           19.21         19.67         624         148         0.67         0.1965741         21.41         2.972         1.328         4.300         4.972         2.814           19.23         19.70         623         148         0.67         0.196567         21.41         2.966         1.328         4.294         4.966         2.811           19.25         19.73         634         148         0.67         0.197564         21.42         2.900         1.328         4.294         4.966         2.811	ŀ	19.11	19.57	633	1.40	0.07	0.195032	21.30	2.300	1 9 9 9	4,000	4,000	2,011
19.19         19.55         623         148         0.67         0.196526         21.40         2.968         1.328         4.296         4.968         2.813           19.19         19.65         623         148         0.67         0.196526         21.40         2.968         1.328         4.296         4.968         2.812           19.21         19.67         624         148         0.67         0.196741         21.41         2.972         1.328         4.300         4.972         2.814           19.23         19.70         623         148         0.67         0.196967         21.41         2.966         1.328         4.294         4.966         2.811           19.26         19.73         634         148         0.67         0.19754         21.42         2.900         1.328         4.294         4.966         2.811	ŀ	19.16	19,63	633	149	0.07	0.196339	21.00	3 969	1 999	4.393	4,969	3 813
13.13         13.03         0.13         140         0.07         0.13030         71.40         7.360         1.320         4.395         4.395         7.812           19.21         19.67         624         148         0.67         0.196741         21.41         2.972         1.328         4.300         4.972         2.814           19.23         19.70         623         148         0.67         0.196967         21.41         2.966         1.328         4.294         4.966         2.811           19.26         19.73         634         148         0.67         0.19754         21.42         2.966         1.328         4.294         4.966         2.811	┞	10.10	10.00	630	1.40	0.67	0.106536	31.40	3,000	1 2 2 2	4 300	4,000	3,943
19.23         19.70         623         148         0.67         0.196967         21.41         2.966         1.328         4.294         4.966         2.811           19.26         19.73         634         148         0.67         0.197564         21.41         2.966         1.328         4.294         4.966         2.811	┞	19.13	19.65	634	1.40	0.07	0.196744	21.40	2.000	1 999	4,000	4,000	2,012
19.36 19.73 634 148 0.67 0.197564 31.43 2.070 1.238 4.298 4.070 3.042	ŀ	10.32	10.70	633	1.10	0.07	0.100041	34.24	3 000	1 000	8 304	1000	2,014
	ŀ	19.26	19.79	624	149	867	0.197264	21.42	2 976	1 928	4 298	4 970	2,812

Defense dia	Deform.	Celda	Presión	Incremento	Dedama	Area	Estuerzo	13	a'1	:1	Enfuerzo
(mm)	Unitaria	Cargo	de poros	deporos	Unitaria	Corregida	Derviedor	Efectivo	Efectivo	Total	Promedio
	8	N	(kPa)	(kgt/cm <sup>*</sup> )		(cm²)	(kgt/cm <sup>*</sup> )	(kgi/cm*)	(kgi/cm*)	(kgt/cm*)	(log!/cm²)
19.28	19.75	625	148	0.67	0.197479	21.43	2.974	1.328	4.302	4.974	2.815
19.31	19.78	624	148	0.67	0.197776	21.43	2.968	1.331	4.299	4.968	2.815
19.34	19.81	625	148	0.67	0.198073	21.44	2.971	1.328	4.300	4.971	2.814
19.37	19.84	624	148	0.67	0.198360	21.45	2.966	1.331	4.297	4.966	2.814
19.39	19.86	625	148	0.67	0.198585	21.45	2.970	1.331	4.301	4.970	2.816
19.42	19.89	625	148	0.67	0.198882	21.46	2.968	1.331	4.300	4.968	2.815
19.43	19.90	625	148	0.67	0.199026	21.47	2.968	1.331	4.299	4.968	2.815
19.46	19.93	626	148	0.67	0.199323	21.47	2.972	1.331	4.303	4.972	2.817
19.48	19.95	625	148	0.67	0.199538	21.48	2.966	1.331	4.297	4.966	2.814
19.50	19.98	626	148	0.67	0.199763	21.49	2.970	1.331	4.301	4.970	2.816
19.53	20.01	627	148	0.67	0.200060	21.49	2.974	1.331	4.305	4.974	2.818
19.56	20.03	627	148	0.67	0.200347	21.50	2.972	1.331	4.304	4.972	2.817
19.58	20.06	627	148	0.67	0.200572	21.51	2.972	1.331	4.303	4.972	2.817
19.61	20.09	626	148	0.67	0.200869	21.52	2.966	1.331	4.297	4.966	2.814
19.63	20.11	627	148	0.67	0.201084	21.52	2.970	1.331	4.301	4.970	2.816
19.66	20.14	626	148	0.67	0.201381	21.53	2.964	1.334	4.298	4.964	2.816
19.68	20.16	625	148	0.67	0.201597	21.54	2.958	1.334	4.292	4.958	2.813
19.71	20.19	626	148	0.67	0.201894	21.54	2.962	1.331	4.293	4.962	2.812
19.74	20.22	625	148	0.67	0.202191	21.55	2.956	1.334	4.290	4.956	2.812
19.76	20.24	625	148	0.67	0.202406	21.56	2.955	1.334	4.289	4.955	2.812
19.79	20.27	625	148	0.67	0.202703	21.57	2.954	1.334	4.288	4.954	2.811
19.81	20.29	625	148	0.67	0.202928	21.57	2.953	1.334	4.287	4.953	2.811
19.83	20.31	625	148	0.67	0.203143	21.58	2.953	1.334	4.287	4.953	2.810
19.85	20.34	625	148	0.67	0.203369	21.58	2.952	1.334	4.286	4.952	2.810
19.88	20.37	625	148	0.67	0.203666	21.59	2.951	1.334	4.285	4.951	2.809
19.91	20.40	625	148	0.67	0.203953	21.60	2.950	1.334	4.284	4.950	2.809
19.93	20.42	625	148	0.67	0.204178	21.61	2.949	1.334	4.283	4.949	2.808
19.96	20.45	625	147	0.66	0.204475	21.61	2.948	1.337	4.284	4.948	2.811
19.98	20.47	625	148	0.67	0.204690	21.62	2.947	1.334	4.281	4.947	2.807
20.01	20.49	625	147	0.66	0.204915	21.63	2.946	1.337	4.283	4.946	2.810
20.03	20.52	624	147	0.66	0.205202	21.63	2.940	1.337	4.277	4.940	2.807
20.06	20.54	625	147	0.66	0.205428	21.64	2.944	1.337	4.281	4.944	2.809
20.08	20.57	625	147	0.66	0.205725	21.65	2.943	1.337	4.280	4,943	2.808
20.11	20.59	624	147	0.66	0.205940	21.65	2.938	1.337	4.274	4.938	2.805
20.13	20.62	625	147	0.66	0.206237	21.66	2.941	1.339	4.281	4.941	2.810
20.16	20.65	624	147	0.66	0.206462	21.67	2.936	1.337	4.272	4,936	2.804
20.18	20.67	625	147	0.66	0.206749	21.68	2.939	1.339	4.279	4,939	2.809
20.21	20.70	625	147	0.66	0.206974	21.68	2.938	1.337	4.275	4.938	2.806
20.24	20.73	625	147	0.66	0.207271	21.69	2.937	1.337	4.274	4,937	2.805

## TRAXEAL ESTATICO CD

Fecha 18-mar-2013

	Variabilidad en el conto y largo plas	io del estado de e	duerzos en laderas		
Proyector	conformadas por suelos residuales			Localización:	Caldas, Antioquia
Sondeo	1	Muestra	1	Profundided (m):	1.8

Descripción de la Muestra:

	Primer	incremento	
Datos de la muestra		Datos del Ensayo	
Diametro (cm)	4,835	Presión de poros inducida (kgf/cm <sup>2</sup> )	1.00
Albura (om)	9.96567	Presión de câmere (kgf/cm <sup>2</sup> )	1.50
Area (cm <sup>2</sup> )	18.36	Presión efective (kgf/cm <sup>2</sup> )	0.50
Volumen (cm <sup>1</sup> )	182.97	Parámetro II	0.90
Humeded (%)	39.3	Vel. de aplicación de carga (mm/min)	6.04
Peso del suelo humedo (g)	125.47		
Peso del suelo seco (g)	233.6	Etapa de Consolidación	
Masa unitaria húmeda (g/cm <sup>3</sup> )	1.78	Deformación por consolidación (mm)	0.043
Masa unitaria seca (g/cm <sup>2</sup> )	1.28	Lecture inicial de la bureta (cm <sup>3</sup> )	24.20
Gravedad específica	2.7	Lecture final de la bureta (cm <sup>2</sup> )	16.00
Relection de vectos	1.11	Cambio volumen consolidación (cm <sup>3</sup> )	8.20
Seturación (%)	95.23	Alture (cm)	9,9634
		Volumen (cm <sup>*</sup> )	174.77
Etapa de saturación		Area (cm <sup>2</sup> )	17.545
Deformación por saturación (mm)	0	Masa unitaria seca (g/cm <sup>8</sup> )	1.34
Diámetro (cm)	4.835		
Alture (cm)	9,966	Humedad Post-falls	
Area (cm <sup>2</sup> )	18.360	Peso suelo humedo + tara (g)	399.51
Volumen (cm <sup>*</sup> )	192.97	Peso suelo seco + ters (g)	301.48
Masa unitaria seca (g/cm <sup>2</sup> )	1.28	Peso tara (g)	71.31
		Humedad Port-falla (%)	42.16
		Saturadón (%)	102.12

	Segundo	Incremento	
Datos de la muestra		Datos del Ensayo	
Diāmetro (cm)	4.845	Presión de poros inducida (kgf/cm <sup>2</sup> )	1.0
Albura (cm)	9,929	Presión de câmere (kgf/cm <sup>2</sup> )	2.0
Area (cm <sup>1</sup> )	18,406	Preción efective (kgf/cm <sup>2</sup> )	1.0
Volumen (cm <sup>3</sup> )	183.05	Panimetro II	1
Humeded (%)	41.85	Vel. de aplicación de carga (mm/min)	0.04
Peso del suelo humedo (g)	123.54		
Peso del suelo seco (g)	228.1		
Masa unitaria húmeda (g/cm <sup>3</sup> )	1.77	Etapa de Consolidación	
Masa unitaria seca (g/cm <sup>3</sup> )	1.25	Deformación por consolidación (mm)	0.036
Graveded especifica	2.7	Lecture inicial de la bureta (cm <sup>3</sup> )	22.00
Relación de vectos	1.17	Lecture final de la bureta (cm <sup>3</sup> )	17.40
Seturación (%)	96.84	Cambio volumen consolidación (cm <sup>3</sup> )	4.90
	•	Alture (cm)	9.90
Etapa de saturación		Volumen (cm <sup>*</sup> )	178.15
Deformación por esturación (mm)	0	Area (cm <sup>2</sup> )	17.95
Diametro (cm)	4.845	Masa unitaria seca (g/cm <sup>b</sup> )	1.28
Albuna (cm)	9.99		
Area (cm <sup>2</sup> )	18,496	Humedad Post-fails	
Volumen (cm <sup>*</sup> )	183.05	Peso suelo humedo + tara (g)	397.34
Masa unitaria seca (g/cm <sup>3</sup> )	1.25	Peso suelo seco + tars (g)	304.80
		Peso tara (g)	76.61
		Humedad Port-falls (%)	40.55
		Saturadón (%)	93.93
	Terceri	incremento	
Datos de la muestra		Datos del Ensayo	
Diametro (cm)	4.783	Presión de poros inducida (kgt/cm <sup>2</sup> )	1.0
Altura (cm)	10.01	Presión de câmere (kgt/cm <sup>2</sup> )	3.0
Area (cm <sup>2</sup> )	17.97	Presión efective (kgf/cm²)	2.0
Volumen (cm <sup>*</sup> )	179.80	Panimetro II	0.97
Humeded (%)	39.54	Vel. de aplicación de carga (mm/min)	0.04

Peso del suelo humedo (g)	126.98		
Peso del suelo seco (g)	234.32		
Masa unitaria húmeda (g/cm <sup>3</sup> )	1.82	Etapa de Consolidación	
Masa unitaria seca (g/cm <sup>3</sup> )	1.30	Deformación por consolidación (mm)	0.16
Graveded expecifica	2.7	Lectura inicial de la bureta (cm <sup>2</sup> )	19.80
Relación de vectos	1.07	Lectura final de la bureta (cm <sup>3</sup> )	11.20
Saturación (%)	99.62	Cambio volumen consolidación (cm <sup>1</sup> )	8.60
		Alture (cm)	9.99
Etapa de saturación		Volumen (cm <sup>*</sup> )	171.20
Deformación por saturación (mm)	0.000	Aree (cm <sup>2</sup> )	17.14
Diámetro (cm)	4.783	Masa unitaria seca (g/cm <sup>3</sup> )	1.37
Alture (cn)	30.006		
Area (cm <sup>2</sup> )	17.97	Humeded Post-faile	
Volumen (cm <sup>1</sup> )	179.80	Peso suelo humedo + tara (g)	395.39
Mese uniteria seca (g/cm <sup>8</sup> )	1.30	Peso suelo seco + tars (g)	309.63
		Peso tara (g)	76.61
		Humedad Post-falla (%)	36.81
		Saturadón (%)	92.73

Etapa de falla primer incremento												
Deformació n (mm)	Deform. Unitaria	Celda Cerga N	Presión de poros (kPa)	incremento deportos	Deform. Unitaria	Estuerzo Decviador	r3 Bectivo	r's Electivo	et Total	Lecture burets	Cambio	Area
	2			(kgt/cm <sup>*</sup> )		(km/cm*)	(kgt/cm <sup>2</sup> )	(kgt/m²)	(legt/on <sup>2</sup> )	(an)	(an')	
0.00	0.00	0	100	0.00	0.0000	0.000	0.500	0.500	0.5	36.0	0.0	17.5
0.02	0.02	23	103	0.01	0.0002	0.134	0.494	0.628	0.634	36.0	0.0	17.5
0.04	0.04	10	104	0.01	0.0004	0.174	0.496	0.660	0.674	36.0	0.0	27.6
0.05	0.00		104	6.62	6.0005	0.209	0.483	0.692	0.709	16.0	8	27.6
0.07	9.02	- 41	105	0.02	0.0007	0.238	0.478	0.716	0.738	36.0	0.0	17.6
0.09	0.09	46	105	6.63	6.0009	0.267	0.475	0.742	0.767	36.0	0.0	17.6
0.10	0.30	50	106	6.03	0.0010	0.290	0.469	0.760	0.790	36.0	0.0	17.6
0.12	0.12		106	0.03	0.0012	0.319	0.467	0.786	0.819	16.0	0.0	17.6
0.14	0.34	599 275	106	0.04	0.0014	0.342	0.464	0.806	0.842	16.0	0.0	17.6
0.15	0.0	64	106	0.04	0.0013	0.365	0.461	0.005	0.005	35.0	<u></u>	17.6
0.17	0.17	200	100	0.04	0.0017	0.80	0.458	0.041	0.000	36.0		17.6
0.19	0.39	15	107	0.04	0.0009	0.400	0.458	0.008	0.000	20.0	0.0	17.0
0.20	0.20		107	0.04	0.0020	0.423	0.455	0.879	0.993	20.0	0.0	17.0
0.24	0.34	70	100	0.05	0.0004	0.652	0.450	0.900	0.953	10.0	0.0	17.6
0.25	0.25	01	100	0.05	0.0005	0.459	0.450	0.919	0.959	10.0	0.0	17.6
0.32	0.72	64	100	0.05	0.0007	0.497	0.462	0.934	0.997	16.0	0.0	17.6
0.28	0.38	87	108	0.05	0.0028	0.504	0.447	0.953	1.004	16.0	0.0	17.6
0.30	0.30	90	100	20.0	0.0000	0.522	0.407	0.969	1.022	929	0.1	17.6
0.32	0.02	92	108	0.05	6.0092	0.590	0.447	0.900	1.093	25.9	0.1	17.6
0.33	0.33	95	108	0.06	0.0033	0.550	0.444	0.995	1.050	25.9	0.1	17.6
0.35	0.8	98	108	0.06	0.0005	0.568	0.444	1.012	1.058	25.9	0.1	2.6
0.37	0.37	100	109	0.06	0.0097	0.579	0.444	1.023	1.079	15.9	0.1	- 17.6
0.38	0.38	303	108	0.06	8600.0	0.596	0.444	1.041	1.096	15.9	0.1	- 17.6
0.40	0.40	305	108	0.06	0.0010	0.608	0.444	1.052	1.108	25.9	0.1	- 17.6
0.42	0.42	307	108	0.06	0.0042	0.619	0.441	1.061	1.119	25.9	0.1	17.6
0.43	0.43	110	108	0.06	0.0043	0.637	0.441	1.078	1.137	25.9	0.1	17.6
0.45	0.45	112	108	0.06	0.0045	0.648	0.441	1.090	1.148	15.9	0.1	17.6
0.47	0.47	114	108	0.06	6.0047	0.660	0.444	1.104	1.160	15.9	0.1	17.6
0.48	0.48	117	108	0.06	0.0048	0.677	0.441	1.118	1.177	15.9	0.1	17.6
0.50	0.50	119	108	0.06	0.0050	0.689	0.441	1.130	1.189	15.4	0.2	17.6
0.51	0.51	121	108	0.06	0.0051	0.700	0.441	1.142	1.200	15.4	0.2	17.6
0.54	0.58	123	108	0.06	0.0053	0.712	0.441	1.154	1.21.2	25.3	0.4	17.6
0.00	0.00	1.22	100	0.00	0.0000	0.748	0.000	1.170	1.000	10.0	0.0	47.4
0.50	0.50	100	100	0.00	0.0000	0.752	0.441	1 103	1 303	42.4	0.2	17.6
0.59	0.59	132	100	0.06	0.0059	0.263	0.441	1.305	1 363	10.0	0.2	17.6
0.61	0.63	114	100	0.06	0.0061	0.775	0.441	1 216	1.375	10.0	0.2	17.6
0.63	0.63	136	100	0.06	0.0063	0.786	0.441	1.228	1,296	15.8	0.2	17.6
0.64	0.64	138	10	0.06	0.0064	0.798	0.441	1.239	1,298	25.0	0.2	17.6
0.66	0.66	140	108	0.06	0.0055	0.809	0.441	1.250	1.309	25.0	0.2	17.6
0.67	0.67	141	100	0.06	0.0067	0.815	0.441	1.256	1.315	25.4	0.2	17.6
0.69	0.09	343	108	0.06	0.0099	0.826	0.441	1.267	1.326	25.8	0.2	17.6
0.70	0.71	145	108	0.06	0.0071	0.837	0.444	1.292	1.007	25.8	0.2	17.6
0.72	0.72	147	101	6.06	0.0072	0.949	0.441	1.290	1.349	15.4	0.2	17.7
0.73	0.34	349	1.08	0.06	0.0074	0.860	0.441	1.302	1.360	25.4	0.2	17.7
0.25	20.770	100	8.00	0.02	0.0000	0.000	0.000	8,566	8.575	10 A 10	0.0	100.00

Deformació	Deform.	Celda	Presión de	Incremento	Deform.	Estuerto	că.	ra	ei.	Lecture	Cambio	Area
n (mm)	%	Cargo N	poros (kPa)	(kg/cm <sup>2</sup> )	Unitaria	(kgt/cm <sup>2</sup> )	Enectivo	Electivo	TOTAL	(cm <sup>b</sup> )	(cm <sup>1</sup> )	corregide
0.77	A 77		1.04		0.0007	0.003	(bgt/cm <sup>*</sup> )	(kgt/cm <sup>*</sup> )	(let) cm )			
0.7/	0.79	358	108	0.06	0.0079	0.894	0.441	1.325	1.394	15.8	0.2	17.7
0.80	0.80	157	108	0.06	0.0090	0.906	0.444	1.851	1.406	15.7	0.3	17.7
0.82	0.42	150	108	0.06	0.0082	0.912	0.444	1.856	1.412	15.7	0.3	12.7
0.83	0.84	360	108	0.06	0.0094	0.923	0.444	1.368	1.423	16.7	0.3	17.7
0.85	0.85	162	108	0.06	0.0085	0.935	0.444	1.379	1.435	15.7	0.3	17.7
0.00	0.87	105	108	0.05	0.0007	0.955	0.447	1.000	1.665	B./	0.3	17.7
0.90	0.90	167	108	0.06	0.0090	0.963	0.444	1.407	1.463	15.7	0.3	17.7
0.91	0.92	368	108	0.06	0.0092	0.969	0.444	1.413	1.469	15.7	0.3	17.7
0.93	0.99	170	108	0.05	0.0093	0.980	0.447	1.427	1.480	15.7	0.3	17.7
0.94	0.94	172	108	0.05	0.0094	0.992	0.447	1.439	1.492	16.7	0.3	17.7
0.96	0.97	174	108	0.05	0.0097	1.003	0.447	1.450	1.503	15.7	0.3	17.7
0.99	0.36	1.0	108	0.05	0.0098	1.008	0.447	1.456	1.508	25.7	0.3	17.7
1.01	1.01	179	100	0.05	0.0305	1.002	0.447	1.679	1.533	10.0	0.5	12.2
1.02	1.02	180	108	0.05	0.0302	1.010	0.447	1.465	1.516	15.5	0.5	17.7
1.04	1.04	382	108	0.05	0.0304	1.049	0.447	1.496	1.549	15.5	0.5	17.7
1.05	14	183	10	0.05	0.0305	1.055	0.450	1.505	1.555	5	0.5	17.7
1.07	1.09	185	108	0.05	0.0309	1.056	0.450	1.516	1.566	15.5	0.5	17.7
1.09	1.09	186	108	0.05	0.0109	1.072	0.450	1.522	1.573	15.5	0.5	17.7
1.10	1.10	200	108	0.00	0.0110	1,000	0.450	1,530	1,500	10.5 10.5	20	12.7
1.14	1.14	291	100	0.05	0.0114	1,100	0.450	1,520	1,600	2.5	0.5	17.7
1.15	1.15	299	108	0.05	0.0115	1.112	0.450	1.561	1.612	15.5	0.5	17.7
1.16	1.17	194	107	0.05	0.0117	1.117	0.453	1.570	1.617	5.5	0.5	- 17.7
1.19	1.19	196	107	0.05	0.0119	1.128	0.453	1.581	1.628	15.5	0.5	17.7
1.20	1.20	297	1.07	0.05	0.0120	1.134	0.453	1.587	1.614	15.5	0.5	17.7
1.21	1.33	399	100	0.05	0.0122	1.140	0.453	1.592	1.640	10.0	0.5	17.7
1.25	1.25	200	107	0.05	0.0125	1.151	0.453	1,609	1.651	15.5	0.5	17.7
1.27	1.28	202	107	0.05	0.0128	1.162	0.453	1.615	1.662	15.5	0.5	17.7
1.29	1.29	209	107	0.04	0.0129	1.167	0.455	1.63	1.667	85	0.5	17.7
1.30	1.31	205	107	0.04	0.0131	1.179	0.455	1.634	1.679	5	0.5	17.7
1.12	1.32	306	107	0.04	0.0132	1.184	0.455	1.640	1.694	15.5	0.5	17.7
1.33	1.33	208	107	0.04	0.0133	1.196	0.455	1.651	1.696	15.5	0.5	17.7
1.07	1.17	210	107	0.04	6.0137	1.207	0.455	1.60	1.707	8.5	0.5	0.7
1.38	1.38	2:12	107	0.04	0.0138	1.218	0.455	1.674	1.718	15.5	0.5	17.7
1.39	1.40	234	107	884	0.0540	1.229	0.458	1.69	1.729	5	0.5	17.7
1.41	1.41	2:15	107	0.04	0.0141	1.235	0.458	1.690	1.735	15.5	0.5	17.7
1.42	1.43	217	107	0.04	0.0343	1.246	0.458	1.704	1.746	15.5	0.5	17.7
1.44	1.45	210	106	0.04	0.0344	1.202	0.408	1.710	1.754	10.0	0.5	17.0
1.0	1.49	220	106	0.04	0.0148	1.263	0.461	1.734	1.761	12.5	0.5	17.8
1.49	1.49	221	106	0.04	0.0349	1.258	0.461	1.729	1.768	15.5	0.5	17.8
1.50	1.51	232	106	0.04	0.0151	1.275	0.461	1.736	1.775	15.4	0.6	17.8
1.52	1.52	234	106	0.04	0.0152	1.286	0.464	1.750	1.786	15.4	0.6	17.8
1.53	1.54	225	106	0.04	0.0154	1.293	0.464	1.755	1.793	15.4	0.6	17.8
1.55	1.00	302	106	0.04	0.0157	1,000	0.464	1,763	1,000	10.4 35.4	0.6	17.0
1.59	1.59	228	106	6.04	0.0159	1.306	0.464	1.772	1.000	15.4	0.6	17.6
1.60	1.61	239	106	0.03	0.0361	1.314	0.467	1.790	1.814	15.4	0.6	17.8
1.02	1.9	230	106	0.03	0.0362	1.319	0.467	1.786	1.819	54	0.6	17.8
1.63	1.64	231	106	0.03	0.0364	1.325	0.467	1.791	1.825	15.4	0.6	17.8
1.65	1.66	231	106	0.03	0.0366	1.034	0.467	1.791	1.824	15.4	<u>8.0</u>	17.8
1.00	1.67	232	106	0.03	0.0367	1,000	0,459	1,005	1,000	8.41 8.29	0.6	17.8
1.70	1.20	234	106	0.00	0.0170	1.341	0.469	1.810	1.841	15.4	0.6	17.0
1.71	1.72	234	105	0.00	0.0172	1.341	0.472	1.813	1.841	15.4	0.6	17.8
1.72	1.73	236	105	0.00	0.0173	1.352	0.472	1.824	1.852	15.4	0.6	17.8
1.75	1.76	235	105	0.03	0.0176	1.346	0.472	1.818	1.946	15.4	0.6	17.8
1.76	1.77	217	105	0.03	0.0177	1.357	0.472	1.829	1.857	15.4	0.6	17.8
1.77	1.00	240	105	0.03	0.0177	1,024	0.472	1,635	1,074	15.4 1.2	0.6	17.8
1.00	1.41	240	105	0.03	0.0191	1,074	0.675	1,949	1,074	15.4	0.6	17.0
1.82	1.83	240	105	0.00	0.0183	1.374	0.475	1.948	1.874	15.4	0.6	17.8
1.84	1.85	341	105	0.00	0.0185	1.379	0.475	1.854	1.879	15.4	0.6	17.8
1.85	1.85	342	105	0.03	0.0385	1.385	0.475	1.900	1.985	25.4	0.6	17.8

Deformació	Deform.	Celda	Presión de	incremento	Deform.	Estuerto	a.	13	*1	Lecture	Cambio	Arm
n (mm)	Unitaria %	Carga N	poros (kifa)	deporos (kgt/cm <sup>2</sup> )	Unitaria	Dependentor (http:/cm <sup>2</sup> )	Electivo	Electivo	Total	bureta (cm <sup>1</sup> )	(cm <sup>®</sup> )	corregide
1.07		2.42		0.00	A. (1994)	1.000	(kg(/cm))	(kgt/cm)	(bgt/cm)			
1.87	1.00	244	105	0.02	0.0189	1.86	0.478	1.873	1,896	15.4	0.6	17.8
1.90	1.90	244	105	0.00	0.0190	1.395	0.478	1.671	1.895	25.4	0.6	17.8
1.91	1.82	245	105	6.62	0.0192	1.401	0.478	1.079	1.901	25.4	8.0	17.8
1.93	1.80	246	105	0.02	0.0393	1.406	0.490	1.667	1.906	25.4	0.6	17.8
1.94	1.85	247	105	0.02	0.0095	1.412	0.480	1.892	1.912	35.4	0.6	17.8
1.97	1.99	248	105	6.02	0.0098	1.417	0.490	1,099	1.917	15.4	0.6	17.8
1.99	2.00	249	105	0.02	0.0200	1.03	0.480	1.903	1.923	25.4	0.6	17.8
2.00	2.01	249	105	0.02	0.0001	1.404	0.480	1,904	1.924	15.2	8.0	17.8
2.02	2.09	250	105	0.00	0.0203	1.429	0.490	1.910	1.929	25.2	0.8	17.8
2.00	2.04	251	105	0.02	0.0004	1.405	0.480	1.915	1.935	15.2	0.8	17.8
2.05	2.00	202	104	0.02	0.000	1.440	0.493	1.909	1,940	10.2	0.8	17.8
2.08	2.09	252	104	0.02	0.0009	1.440	0.483	1.923	1.940	15.2	0.8	17.8
2.50	2.11	253	104	6.62	0.0211	1.445	0.483	1.929	1.945	25.2	0.8	17.8
2.11	2.12	254	104	0.02	0.0212	1.61	0.483	1.934	1.951	35.2	0.8	17.8
2.13	2.13	255	104	0.02	0.0213	1.66	0.483	1.940	1.956	15.2	0.8	17.8
2.16	2.17	253	104	0.01	0.0217	1.444	0.486	1,981	1.903	15.2	0.8	1/8
2,18	2,19	257	104	0,01	0.0019	1.467	0.496	1,953	1.967	15.3	0.8	17.9
2.19	2.20	258	104	0.01	0.0220	1.473	0.486	1.959	1.973	15.2	0.8	17.9
2.21	2.32	259	104	0.01	0.0222	1.0%	0.496	1.964	1.978	15.2	0.8	17.9
2.23	2.34	259	104	0.01	0.0024	1.0%	0.489	1.967	1.978	25.2	0.8	17.9
2.24	2.25	260	104	0.01	0.0225	1.403	0.489	1.972	1.903	15.2	0.8	17.9
2.26	2.26	260	104	0.01	0.0226	1.483	0.489	1.972	1.983	15.2	0.8	17.9
2.29	2.39	262	104	0.01	0.0229	1.494	0.489	1.993	1,994	15.2	0.8	17.9
2.31	2.31	262	104	0.01	0.0231	1.494	0.489	1.993	1.994	25.2	0.8	17.9
2.32	2.30	263	104	0.01	0.0233	1.499	0.489	1.968	1.999	25.2	0.8	17.9
2.34	2.34	264	104	0.01	0.0034	1.505	0.489	1.990	2.005	25.2	0.8	17.9
2.35	2.36	265	100	0.01	0.0236	1.510	0.492	2.002	2.010	15.2	0.8	17.9
2.37	2.08	200	100	0.01	0.0009	1.315	0.492	2,007	2.015	10.2	0.8	17.9
2.40	2.41	267	100	0.01	0.0341	1.521	0.492	2.012	2.021	15.2	0.8	17.9
2.42	2.43	267	100	0.05	0.0043	1.520	0.492	2.012	2.020	25.2	0.8	17.9
2.44	2.44	268	103	6.01	0.0244	1.526	0.492	2.017	2.026	35.2	0.8	17.9
2.45	2.46	269	100	0.01	0.0346	1.531	0.494	2.026	2.031	15.2	0.8	17.9
2,47	2.48	220	100	0.01	0.0050	1.007	0.492	2,039	2,007	10.2	0.8	17.9
2.50	2.51	271	100	0.01	0.0251	1.542	0.494	2.036	2.042	15.2	0.8	17.9
2.51	2.52	272	100	0.01	0.0252	1.547	0.494	2.042	2.047	25.2	0.8	17.9
2.54	2.55	272	103	0.01	0.0255	1.547	0.494	2.041	2.047	15.2	0.8	17.9
2.55	2.56	223	109	0.00	0.0256	1.553	0.497	2.050	2.052	15.2	0.8	17.9
2.57	2.57	223	109	0.01	0.0257	1.552	0.494	2.047	2.052	15.2	0.8	17.9
2,60	2,65	375	100	0.00	0.0351	1,563	0.497	2,000	2,063	25.2	0.0	17.9
2.62	2.63	274	109	0.00	0.0263	1.557	0.497	2.054	2.057	15.2	0.8	17.9
2.64	2.65	275	109	0.00	0.0265	1.562	0.497	2.000	2.002	25.2	0.8	17.9
2.65	2.66	275	103	0.00	0.0266	1.562	0.497	2.059	2.052	35.2	0.8	17.9
2.67	2.68	276	100	0.00	0.0258	1.508	0.497	2.065	2.068	25.2	8.0	17.9
2,08	2.58	277	100	0.00	0.023	1,575	0.500	2,070	2,073	10.2	0.8	10.0
2.72	2.73	279	100	0.00	0.0073	1.578	0.500	2.071	2.078	35.2	0.8	18.0
2.73	2.74	278	100	0.00	6.0274	1.578	0.500	2.078	2.078	35.2	0.8	18.0
2.74	2.75	279	102	0.00	0.0275	1.503	0.500	2.096	2.083	25.2	0.8	18.0
2.77	2.38	279	100	0.00	6.0278	1.503	0.500	2.083	2.083	25.2	0.8	18.0
1.78	2.79	279	100	0.00	0.0079	1.503	0.501	2.096	2.083	15.2	8.0	18.0
2.00	2.85	285	100	0.00	6.0001	1.004	0.500	2.090	2.094	30.2 90.0	0.0	10.0
2.83	2.84	282	100	-0.01	0.0094	1,599	0.506	2,105	2,099	35.2	0.8	18.0
2.85	2.86	282	100	-0.01	0.0296	1.599	0.506	2.104	2.099	25.2	0.8	18.0
2.87	2.88	283	102	-0.01	0.0288	1.604	0.506	2.110	2.104	35.2	0.8	18.0
2.00	2.89	284	102	-0.01	0.0089	1.609	0.506	2.115	2.109	35.2	0.8	18.0
2.90	2.91	284	102	-0.01	0.0091	1.609	0.506	2.115	2.109	15.2	8.0	18.0
2,94	2,95	205	100	-0.01	0.0395	1,614	0.509	2,523	2,514	25.2	0.8	19.0
2.95	2.96	285	100	-0.01	0.0096	1.614	0.509	2,122	2.114	35.2	0.8	18.0
2.97	2.90	286	102	-0.01	0.0398	1.619	0.508	2.128	2.119	15.2	0.8	18.0
Deformació	Deform.	Celda	Presión de	Incremento	Deform.	Estuerzo	1'3	61 	11	Lectura	Cambio	Area
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n (mm)	×	Carga N	poros (kPs)	(kgt/cm <sup>2</sup> )	Unitaria	(kgt/cm <sup>2</sup> )	(het/cm <sup>2</sup> )	(het/cm <sup>2</sup> )	(herf/cm <sup>2</sup> )	(cm <sup>2</sup> )	(cm <sup>3</sup> )	corregida
2.08	2.00	286	102	-0.01	0.0299	1.619	0.508	2 127	2 110	15.2	0.8	15.0
3.00	3.01	255	101	-0.01	0.0301	1.619	0.511	2.130	2.119	15.2	0.6	18.0
3.02	3.03	287	101	-0.01	0.0303	1.624	0.511	2.135	2.124	15.2	0.8	18.0
3.03	3.04	287	101	-0.01	0.0304	1.624	0.511	2.135	2.124	15.2	0.8	18.0
3.05	3.06	287	101	-0.01	0.0306	1.624	0.511	2.135	2.124	15.2	0.8	18.0
3.07	3.06	287	101	-0.01	0.0306	1.623	0.514	2.137	2.123	15.2	0.8	18.0
3.06	3.09	267	101	-0.01	0.0309	1.623	0.514	2.137	2.123	15.2	0.8	18.0
3.10	3.12	200	101	-0.01	0.0312	1.628	0.511	2.140	2.128	15.2	0.8	18.0
3.12	3.14	255	101	-0.01	0.0314	1.628	0.514	2.142	2.128	15.2	0.6	18.0
3.15	3.16	255	101	-0.01	0.0316	1.625	0.514	2.142	2.128	15.2	0.8	18.0
3.17	3.18	255	101	-0.01	0.0318	1.627	0.514	2.141	2.127	15.2	0.8	18.0
3.18	3.19	289	101	-0.01	0.0319	1.633	0.514	2.147	2.133	15.2	0.8	18.0
3.20	3.21	289	101	-0.02	0.0321	1.632	0.517	2.149	2.132	15.2	0.8	18.0
3.22	3.23	289	101	-0.02	0.0323	1.632	0.517	2.149	2.132	15.2	0.8	18.1
3.23	3.25	289	101	-0.02	0.0325	1.632	0.517	2.149	2.132	15.2	0.8	18.1
3.25	3.20	209	101	-0.02	0.0325	1.632	0.517	2.146	2,132	15.2	0.6	18.1
3.28	3.29	290	101	-0.02	0.0329	1.637	0.520	2,156	2,137	15.2	0.8	18.1
3.30	3.31	290	101	-0.02	0.0331	1.636	0.517	2.153	2.136	15.2	0.8	18.1
3.31	3.32	291	101	-0.02	0.0332	1.642	0.517	2.158	2.142	15.2	0.8	18.1
3.33	3.34	291	101	-0.02	0.0334	1.642	0.517	2.158	2.142	15.2	0.8	18.1
3.34	3.35	291	101	-0.02	0.0335	1.641	0.520	2.161	2.141	15.2	0.8	18.1
3.36	3.38	292	101	-0.02	0.0338	1.647	0.517	2.163	2.147	15.2	0.8	18.1
3.36	3.39	292	101	-0.02	0.0339	1.646	0.520	2.166	2.145	15.2	0.6	18.1
3.39	3.40	292	101	-0.02	0.0340	1.646	0.520	2.156	2.146	15.2	0.8	18.1
3.41	3.43	230	100	-0.02	0.0344	1.051	0.520	2.1/1	2.151	15.2	0.8	18.1
144	3.45	293	101	-0.02	0.0345	1.651	0.520	2.170	2.151	15.2	0.8	18.1
3.46	3.47	293	100	-0.02	0.0347	1.651	0.522	2.173	2.151	15.2	0.6	18.1
3.47	3.46	294	100	-0.02	0.0348	1.656	0.522	2.178	2.156	15.2	0.6	18.1
3.49	3.50	294	100	-0.02	0.0350	1.656	0.522	2.178	2.156	15.2	0.8	18.1
3.51	3.52	294	100	-0.02	0.0352	1.655	0.522	2.178	2.155	15.2	0.8	18.1
3.52	3.53	295	100	-0.02	0.0353	1.661	0.522	2.183	2.161	15.2	0.8	18.1
3.54	3.56	295	100	-0.02	0.0356	1.660	0.522	2.183	2.160	15.2	0.6	18.1
3.55	3.57	295	100	-0.03	0.0357	1.660	0.525	2.185	2.160	15.2	0.8	18.1
3.59	3.61	295	100	-0.02	0.0361	1.659	0.522	2.182	2.159	15.2	0.8	18.1
3.61	3.63	296	100	-0.02	0.0363	1.665	0.522	2.187	2.165	15.2	0.6	18.1
3.62	3.64	296	100	-0.03	0.0364	1.665	0.525	2.190	2.165	15.2	0.8	18.1
3.64	3.66	295	100	-0.03	0.0366	1.654	0.525	2.189	2.164	15.2	0.8	18.1
3.66	3.67	295	100	-0.03	0.0367	1.664	0.525	2.189	2.164	15.2	0.8	18.1
3.67	3.69	296	100	-0.03	0.0369	1.664	0.525	2.189	2.164	15.2	0.8	18.1
3.69	3.70	297	100	-0.03	0.0370	1.669	0.525	2.194	2.169	15.2	0.8	18.1
3.70	3.71	297	100	-0.03	0.0371	1.669	0.525	2.194	2.169	15.2	0.8	18.1
3.74	3.73	297	100	-0.03	0.0375	1.009	0.525	2.194	2.109	15.2	0.6	18.1
3.75	3.76	297	100	-0.03	0.0376	1.668	0.525	2,193	2,168	15.2	0.8	18.2
3.76	3.76	296	100	-0.03	0.0376	1.673	0.525	2.198	2.173	15.2	0.8	18.2
3.79	3.80	296	100	-0.03	0.0380	1.673	0.528	2.201	2.173	15.2	0.8	18.2
3.80	3.81	296	100	-0.03	0.0381	1.673	0.528	2.201	2.173	15.2	0.8	18.2
3.81	3.63	299	100	0.03	0.0383	1.678	0.528	2.206	2.178	15.2	0.8	18.2
3.84	3.85	299	100	-0.03	0.0385	1.678	0.528	2.206	2.178	15.2	0.8	16.2
3.65	3.86	239	100	-0.03	0.0365	1.677	0.528	2.205	2.1/7	15.2	0.6	18.2
3.85	3.60	300	100	-0.03	0.0360	1.683	0.528	2.210	2,183	15.2	0.8	18.2
3.90	3.92	301	100	-0.03	0.0392	1.655	0.528	2.216	2.165	15.2	0.8	18.2
3.92	3.93	302	100	-0.03	0.0393	1.693	0.528	2.221	2.193	15.2	0.8	18.2
3.94	3.95	302	100	-0.03	0.0395	1.693	0.528	2.221	2.193	15.2	0.8	18.2
3.94	3.96	303	100	-0.03	0.0396	1.696	0.528	2.226	2.196	15.2	0.8	18.2
3.97	3.96	303	100	-0.03	0.0396	1.696	0.528	2.226	2.196	15.2	0.8	18.2
3.99	4.00	304	29	-0.03	0.0400	1.708	0.531	2.234	2.208	15.2	0.8	18.2
4.00	4.02	304	39	-0.03	0.0402	1.702	0.531	2.232	2.202	15.3	0.7	16.2
4.04	4.05	305	90	-0.03	0.0405	1,702	0.531	2.232	2.202	15.3	0.7	18.2
4.05	4.07	306	20	-0.03	0.0407	1,712	0.531	2,243	2,212	15.3	0.7	18.2
4.07	4.09	306	29	-0.03	0.0409	1.712	0.531	2.242	2.212	15.3	0.7	18.2
4.06	4.10	306	20	-0.03	0.0410	1.712	0.531	2.242	2.212	15.3	0.7	18.2
4.10	4.12	306	29	-0.03	0.0412	1.711	0.533	2.245	2.211	15.3	0.7	18.2

Deformació n (mm)	Deform. Unitaria	Celda Carga N	Presión de poros (kPa)	Incremento deporos	Deform. Unitaria	Estuerzo Desvisióor	s'3 Efectivo	s'1 Efectivo	s1 Total	Lectura	Cambio	Area corregida
	~			(kgt/cm)		(kgt/cm )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(cm)	(cm)	
4.12	4.13	307	99	-0.03	0.0413	1.717	0.533	2.250	2.217	15.3	0.7	18.2
4.13	4.15	307	29	-0.03	0.0415	1.715	0.533	2.250	2.216	15.3	0.7	18.2
4.15	4.17	307	99	-0.03	0.0417	1.716	0.533	2.249	2.216	15.3	0.7	18.2
4.17	4.18	306	99	-0.03	0.0418	1.721	0.533	2.255	2.221	15.3	0.7	18.2
4.18	4.20	306	29	-0.03	0.0420	1.721	0.533	2.254	2.221	15.3	0.7	18.2
4.20	4.22	306	39	-0.03	0.0422	1.721	0.533	2.254	2.221	15.3	0.7	18.2
4.24	4.25	300	90	-0.03	0.0425	1.726	0.533	2.254	2.220	15.3	0.7	18.3
4.25	4.27	309	29	-0.03	0.0427	1.725	0.533	2.259	2.225	15.3	0.7	18.3
4.26	4.26	310	99	-0.03	0.0428	1.731	0.533	2.264	2.231	15.3	0.7	18.3
4.28	4.30	310	99	-0.03	0.0430	1.730	0.533	2.264	2.230	15.3	0.7	18.3
4.30	4.31	310	29	-0.04	0.0431	1.730	0.536	2.266	2.230	15.3	0.7	18.3
4.31	4.33	310	99	-0.04	0.0433	1.730	0.536	2.266	2.230	15.3	0.7	18.3
4.33	4.35	310	99	-0.04	0.0435	1.729	0.536	2.266	2.229	15.3	0.7	18.3
4.35	4.36	311	29	-0.04	0.0436	1.735	0.536	2.271	2.235	15.3	0.7	18.3
4.35	4.36	311	29	-0.04	0.0438	1.734	0.536	2.271	2.234	15.3	0.7	16.3
4.30	9.29	311	39	-0.04	0.0441	1.739	0.539	2.273	2.239	15.3	0.7	18.3
4.41	4.43	311	90	-0.04	0.0443	1.734	0.536	2.270	2 234	15.3	0.7	18.3
4.43	4.44	312	20	-0.04	0.0444	1,739	0.539	2.278	2,239	15.3	0.7	18.3
4.44	4.46	312	99	-0.04	0.0446	1.739	0.539	2.278	2.239	15.3	0.7	18.3
4.45	4.47	312	99	-0.04	0.0447	1.738	0.539	2.277	2.238	15.3	0.7	18.3
4.45	4.49	312	29	-0.04	0.0449	1.736	0.539	2.277	2.238	15.3	0.7	18.3
4.49	4.51	313	99	-0.04	0.0451	1.743	0.539	2.282	2.243	15.3	0.7	18.3
4.50	4.52	313	99	-0.04	0.0452	1.742	0.539	2.261	2.242	15.4	0.6	18.3
4.53	4.54	313	39	-0.04	0.0454	1.742	0.539	2.261	2.242	15.4	0.6	16.3
4.53	4.50	334	39	-0.04	0.0455	1.747	0.539	2.200	2.24/	15.4	0.6	18.3
4.57	4.50	314	90	-0.04	0.0459	1.746	0.539	2.205	2.247	15.4	0.6	18.3
4.58	4.60	314	29	-0.04	0.0460	1.746	0.539	2.265	2.246	15.4	0.6	18.3
4.61	4.62	314	29	-0.04	0.0462	1.746	0.539	2.265	2.246	15.4	0.6	18.3
4.62	4.64	314	99	-0.04	0.0464	1.745	0.539	2.264	2.245	15.4	0.6	18.3
4.64	4.66	314	29	-0.04	0.0466	1.745	0.539	2.264	2.245	15.4	0.6	18.3
4.65	4.68	314	99	-0.04	0.0468	1.745	0.539	2.264	2.245	15.4	0.6	18.3
4.68	4.69	314	99	-0.04	0.0469	1.744	0.539	2.263	2.244	15.4	0.6	18.3
4.69	4.71	314	29	-0.04	0.0471	1.744	0.539	2.283	2.244	15.4	0.6	18.4
4.71	4.73	314	29	-0.04	0.0473	1.744	0.539	2.263	2.244	15.4	0.6	18.4
4.73	4.72	339	39	-0.04	0.0475	1.743	0.539	2.202	2.243	15.4	0.0	18.4
4.75	4.76	314	90	-0.04	0.0476	1.743	0.539	2.282	2.243	15.4	0.6	18.4
4.75	4.80	313	99	-0.04	0.0480	1,737	0.539	2.276	2,237	15.4	0.6	18.4
4.80	4.82	312	99	-0.04	0.0482	1.731	0.539	2.270	2,231	15.4	0.6	18.4
4.81	4.83	312	99	-0.04	0.0463	1.731	0.539	2.270	2.231	15.4	0.6	18.4
4.83	4.85	312	99	-0.04	0.0485	1.731	0.539	2.270	2.231	15.4	0.6	18.4
4.85	4.87	312	29	-0.04	0.0487	1.730	0.539	2.269	2.230	15.4	0.6	18.4
4.86	4.66	312	99	-0.04	0.0468	1.730	0.539	2.269	2.230	15.4	0.6	18.4
4.85	4.90	312	29	-0.04	0.0490	1.730	0.539	2.269	2.230	15.4	0.6	18.4
4.90	4.92	311	29	-0.04	0.0492	1.724	0.539	2.263	2.224	15.4	0.6	18.4
4.91	4.93	311	99	-0.04	0.0493	1.724	0.539	2.263	2.224	15.4	0.6	18.4
4.94	4.96	311	99	-0.04	0.0496	1,723	0.539	2,262	2,723	15.4	0.6	18.4
4.95	4.96	311	99	-0.04	0.0496	1.722	0.539	2.261	2.222	15.4	0.6	18.4
4.96	5.00	311	29	-0.04	0.0500	1.722	0.539	2.261	2.222	15.4	0.6	18.4
5.00	5.02	311	29	-0.04	0.0502	1.720	0.539	2.259	2.220	15.6	0.4	18.4
5.01	5.03	310	29	-0.04	0.0503	1.714	0.539	2.253	2.214	15.6	0.4	18.4
5.03	5.05	310	99	-0.04	0.0505	1.714	0.539	2.253	2.214	15.6	0.4	18.4
5.04	5.06	310	29	-0.04	0.0506	1.714	0.539	2.253	2.214	15.6	0.4	18.4
5.06	5.06	310	99	-0.04	0.0506	1.713	0.539	2.252	2.213	15.6	0.4	16.4
5.06	5.10	330	29	-0.04	0.0510	1.713	0.539	2.252	2.213	15.6	0.4	16.4
5.12	5.12	310	90	-0.04	0.0513	1,712	0.539	2,251	2,212	15.6	0.4	18.5
5.13	5.15	309	20	-0.04	0.0515	1,707	0.539	2.246	2.207	15.6	0.4	16.5
5.15	5.17	309	99	-0.04	0.0517	1.705	0.539	2.245	2.205	15.6	0.4	18.5
5.17	5.19	310	96	-0.04	0.0519	1.711	0.542	2.253	2.211	15.6	0.4	18.5
5.19	5.21	309	96	-0.04	0.0521	1.705	0.542	2.247	2.206	15.6	0.4	18.5
5.20	5.22	309	96	-0.04	0.0522	1.705	0.542	2.247	2.205	15.6	0.4	18.5
5.22	5.24	309	96	-0.04	0.0524	1.705	0.542	2.247	2.205	15.6	0.4	18.5
5.24	5.26	309	96	-0.04	0.0526	1.705	0.542	2.246	2.205	15.6	0.4	18.5
5.25	5.27	309	96	-0.04	0.0527	1.704	0.542	2.246	2.204	15.6	0.4	18.5

Deformació	Deform. Unitaria	Celds	Presión de	incremento deporos	Deform.	Esfuerzo Desvisióor	s'3 Efectivo	s'1 Efectivo	s1 Total	Lectura bureta	Cambio volumen	Ares
n (mm)	×	Carga N	poros (sva)	(kat/cm )	Unitaria	(kgt/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(cm <sup>*</sup> )	(cm <sup>3</sup> )	corregion
5.27	5.29	309	96	-0.04	0.0529	1.704	0.542	2.246	2.204	15.6	0.4	18.5
5.26	5.26	309	96	-0.04	0.0528	1.704	0.542	2.246	2.204	15.6	0.4	18.5
5.30	5.32	309	98	-0.04	0.0532	1.703	0.542	2.245	2.203	15.6	0.4	18.5
5.32	5.34	306	96	-0.04	0.0534	1.696	0.542	2.239	2.196	15.6	0.4	18.5
5.33	5.35	309	96	-0.04	0.0535	1.703	0.545	2.247	2.208	15.6	0.4	18.5
5.35	5.37	309	98	-0.04	0.0537	1.708	0.542	2.244	2.208	15.6	0.4	18.5
5.37	5.39	309	96	-0.04	0.0539	1.702	0.542	2.244	2.202	15.6	0.4	18.5
5.00	5.40	306	30	-0.04	0.0540	1.090	0.542	2.220	2.130	15.0	0.4	18.5
5.42	5.44	306	95	-0.04	0.0544	1.696	0.542	2.238	2.196	15.6	0.4	18.5
5.43	5.45	306	96	-0.04	0.0545	1.696	0.545	2.240	2.196	15.6	0.4	18.5
5.45	5.47	306	98	-0.04	0.0547	1.695	0.545	2.240	2.195	15.6	0.4	18.5
5.47	5.49	306	96	-0.04	0.0549	1.695	0.545	2.240	2.195	15.6	0.4	18.5
5.49	5.51	306	98	-0.04	0.0551	1.695	0.545	2.239	2.195	15.6	0.4	18.5
5.50	5.52	306	96	-0.04	0.0552	1.692	0.542	2.234	2.192	15.8	0.2	18.6
5.52	5.55	306	98	-0.04	0.0555	1.692	0.545	2.237	2.192	15.8	0.2	18.6
5.53	5.55	306	96	-0.04	0.0555	1.692	0.545	2.237	2.192	15.8	0.2	18.6
5.55	5.5/	306	30	-0.04	0.0550	1.092	0.545	2.230	2.192	15.8	0.2	18.0
5.59	5.61	306	95	-0.04	0.0561	1.691	0.545	2.235	2 191	15.8	0.2	18.6
5.60	5.62	306	96	-0.04	0.0562	1.691	0.545	2.235	2.191	15.8	0.2	18.6
5.62	5.64	306	96	-0.04	0.0564	1.690	0.545	2.235	2.190	15.8	0.2	18.6
5.64	5.66	306	96	-0.04	0.0566	1.690	0.545	2.235	2.190	15.8	0.2	18.6
5.65	5.67	306	96	-0.04	0.0567	1.690	0.545	2.234	2.190	15.8	0.2	18.6
5.67	5.69	306	96	-0.04	0.0569	1.689	0.545	2.234	2.189	15.8	0.2	18.6
5.69	5.71	309	98	-0.04	0.0571	1.695	0.545	2.239	2.195	15.8	0.2	18.6
5.70	5.73	306	96	-0.04	0.0573	1.689	0.545	2.233	2.189	15.8	0.2	18.6
5.72	5.79	309	96	-0.04	0.0574	1.094	0.545	2.239	2.199	15.8	0.2	18.0
5.75	5.75	300	30	-0.04	0.0575	1.693	0.545	2.220	2103	15.8	0.2	18.6
5.77	5.79	309	96	-0.04	0.0579	1.693	0.545	2.238	2.193	15.8	0.2	18.6
5.79	5.81	309	96	-0.04	0.0581	1.693	0.545	2.237	2.193	15.8	0.2	18.6
5.80	5.83	309	96	-0.04	0.0583	1.693	0.545	2.237	2.193	15.8	0.2	18.6
5.82	5.64	309	96	-0.04	0.0584	1.692	0.545	2.237	2.192	15.8	0.2	18.6
5.83	5.86	309	96	-0.04	0.0586	1.692	0.545	2.237	2.192	15.8	0.2	18.6
5.85	5.66	310	98	-0.04	0.0588	1.697	0.545	2.242	2.197	15.8	0.2	18.6
5.87	5.09	310	96	-0.04	0.0589	1.697	0.545	2.241	2.197	15.8	0.2	18.6
5.09	5.94	310	30	-0.04	0.0593	1.091	0.545	2.230	2.195	15.8	0.2	18.6
5.92	5.94	309	95	-0.04	0.0594	1.690	0.545	2.235	2.190	15.8	0.2	18.6
5.94	5.96	309	96	-0.04	0.0596	1.690	0.545	2.235	2.190	15.8	0.2	18.6
5.96	5.96	309	96	-0.04	0.0596	1.690	0.545	2.234	2.190	15.8	0.2	18.6
5.97	5.99	306	98	-0.04	0.0599	1.684	0.545	2.229	2.184	15.8	0.2	18.6
5.96	6.01	306	96	-0.04	0.0601	1.684	0.545	2.228	2.184	15.8	0.2	18.6
6.00	6.02	306	98	-0.04	0.0602	1.682	0.545	2.226	2.182	16.0	0.0	18.7
6.02	6.04	306	96	-0.04	0.0604	1.681	0.545	2.226	2.181	16.0	0.0	18.7
6.03	6.06	306	96	-0.04	0.0606	1.681	0.545	2.226	2.181	16.0	0.0	18.7
6.05	6.07	306	36	-0.04	0.0607	1.681	0.545	2.225	2.181	16.0	0.0	18.7
6.05	6.11	309	96	-0.04	0.0611	1.686	0.545	2.230	2.166	16.0	0.0	18.7
6.10	6.12	309	98	-0.04	0.0612	1.685	0.545	2.230	2.185	16.0	0.0	18.7
6.11	6.14	309	98	-0.04	0.0614	1.685	0.545	2.230	2.185	16.0	0.0	18.7
6.13	6.15	309	96	-0.04	0.0615	1.685	0.542	2.227	2.185	16.0	0.0	18.7
6.15	6.17	309	98	-0.04	0.0617	1.684	0.542	2.226	2.184	16.0	0.0	18.7
6.16	6.19	310	98	-0.04	0.0619	1.690	0.542	2.231	2.190	16.0	0.0	18.7
6.18	6.20	310	98	-0.04	0.0620	1.689	0.542	2.231	2.189	16.0	0.0	18.7
6.19	6.22	310	96	-0.04	0.0622	1,689	0.542	2.231	2.189	16.0	0.0	18.7
6.22	6.25	310	30	-0.04	0.0625	1,689	0.542	2,230	2,189	160	0.0	18.7
6.24	6.27	310	98	-0.04	0.0627	1.688	0.542	2,230	2,166	16.0	0.0	18.7
6.26	6.26	310	96	-0.04	0.0628	1.685	0.545	2.233	2,165	16.0	0.0	18.7
6.27	6.30	311	98	-0.04	0.0630	1.693	0.542	2.235	2.193	16.0	0.0	18.7
6.29	6.32	311	96	-0.04	0.0632	1.693	0.542	2.235	2.193	16.0	0.0	18.7
6.31	6.33	311	96	-0.04	0.0633	1.692	0.542	2.234	2.192	16.0	0.0	18.7
6.32	6.35	312	98	-0.04	0.0635	1.696	0.542	2.239	2.196	16.0	0.0	18.7
6.34	6.36	312	96	-0.04	0.0636	1.697	0.542	2.239	2.197	16.0	0.0	16.7
6.35	6.40	312	90	-0.04	0.0638	1.097	0.542	2.239	2.197	16.0	0.0	18.7
6.30	6.41	312	30	-0.04	0.0540	1,690	0.542	2.239	2.197	16.0	0.0	18.7
and a	10.76		-	10.00	1000014		March 14	6-6-6	8-8 PK	4.974	10.00	4.8.1

Deformació n (mm)	Deform. Unitaria	Celda Carga N	Presión de poros (kPa)	Incremento deporos	Deform. Unitaria	Esfuerzo Desvisióor	s'3 Efectivo	s'1 Efectivo	s1 Total	Lectura bureta	Cambio volumen	Area
	*			(kgt/cm <sup>*</sup> )		(kgt/cm <sup>*</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(cm )	(cm )	
6.40	6.42	312	98	-0.04	0.0642	1.696	0.542	2.238	2.195	16.0	0.0	18.7
6.42	6.44	313	96	-0.04	0.0544	1.701	0.542	2.243	2.201	16.0	0.0	18.8
6.44	6.46	313	96	-0.04	0.0646	1.701	0.545	2.246	2.201	16.0	0.0	16.6
6.45	6.48	314	96	-0.04	0.0548	1.706	0.542	2.248	2.205	16.0	0.0	15.5
6.47	6.49	314	96	-0.04	0.0549	1.706	0.542	2.248	2.205	16.0	0.0	16.6
6.50	0.51	324	30	-0.04	0.0651	1.706	0.542	2.297	2,200	16.0	0.0	10.0
6.52	6.54	314	95	-0.04	0.0654	1.704	0.545	2.249	2 204	16.1	-0.1	18.8
6.53	6.56	315	96	-0.04	0.0656	1.709	0.545	2.254	2.209	16.1	-0.1	18.8
6.55	6.58	315	96	-0.04	0.0658	1.709	0.542	2.251	2.209	16.1	-0.1	18.8
6.56	6.58	315	96	-0.04	0.0658	1.709	0.545	2.253	2.209	16.1	-0.1	18.8
6.57	6.60	315	98	-0.04	0.0660	1.708	0.545	2.253	2.206	16.1	-0.1	18.8
6.59	6.62	315	96	-0.04	0.0662	1.706	0.545	2.253	2.206	16.1	-0.1	16.6
6.55	6.58	315	96	-0.04	0.0658	1.714	0.542	2.256	2.214	16.1	-0.1	16.6
6.64	0.00	315	90	-0.04	0.0666	1,707	0.545	2.252	2.207	16.1	-0.1	10.0
6.65	6.68	316	96	-0.04	0.0555	1,712	0.545	2.257	2,212	16.1	-0.1	18.8
6.67	6.70	316	96	-0.04	0.0670	1.712	0.545	2.257	2,212	16.1	-0.1	18.8
6.69	6.71	317	96	-0.04	0.0671	1.717	0.545	2.262	2.217	16.1	-0.1	18.8
6.70	6.73	316	98	-0.04	0.0673	1.712	0.545	2.256	2.212	16.1	-0.1	18.8
6.72	6.75	317	96	-0.04	0.0675	1.717	0.545	2.261	2.217	16.1	-0.1	16.6
6.74	6.76	317	98	-0.04	0.0676	1.716	0.545	2.261	2.216	16.1	-0.1	18.8
6.75	6.78	316	96	-0.04	0.0678	1.711	0.545	2.255	2.211	16.1	-0.1	18.8
6.77	6.79	315	96	-0.04	0.0679	1.710	0.545	2.255	2.210	16.1	-0.1	16.6
6.80	6.83	310	30	-0.05	0.0683	1,730	0.547	2.257	2,230	16.1	-0.1	18.8
6.82	6.64	316	98	-0.04	0.0584	1,709	0.545	2.254	2,209	16.1	-0.1	18.8
6.83	6.06	315	96	-0.04	0.0686	1.704	0.545	2.248	2.204	16.1	-0.1	18.8
6.85	6.87	315	96	-0.04	0.0687	1.709	0.545	2.253	2.209	16.1	-0.1	18.8
6.86	6.89	315	96	-0.04	0.0689	1.708	0.545	2.248	2.208	16.1	-0.1	18.9
6.88	6.91	315	96	-0.04	0.0691	1.703	0.545	2.247	2.208	16.1	-0.1	18.9
6.90	6.92	315	98	-0.04	0.0692	1.703	0.545	2.247	2.208	16.1	-0.1	18.9
6.91	6.94	315	96	-0.04	0.0694	1.702	0.545	2.247	2.202	16.1	-0.1	18.9
6.93	6.95	315	96	-0.04	0.0695	1.702	0.545	2.247	2.202	16.1	-0.1	18.9
30.3	6.00	315	30	-0.04	0.0690	1,702	0.545	2.240	2.202	16.1	-0.1	18.0
6.95	7.00	315	96	-0.04	0.0700	1.701	0.545	2.246	2.201	16.1	-0.1	18.9
6.99	7.02	314	96	-0.04	0.0702	1.695	0.545	2.240	2.195	16.1	-0.1	18.9
7.00	7.05	314	96	-0.04	0.0703	1.694	0.545	2.239	2.194	16.2	-0.2	18.9
7.03	7.05	313	98	-0.04	0.0705	1.688	0.545	2.233	2.165	16.2	-0.2	18.9
7.04	7.07	312	96	-0.04	0.0707	1.683	0.545	2.227	2.183	16.2	-0.2	18.9
7.05	7.06	312	96	-0.04	0.0706	1.683	0.545	2.227	2.183	16.2	-0.2	18.9
7.07	7.10	311	96	-0.04	0.0710	1.677	0.545	2.221	2.177	16.2	-0.2	18.9
7.08	7.11	311	30	-0.04	0.0711	1.676	0.545	2.221	2.177	16.2	-0.2	18.0
7.12	7.15	310	98	-0.04	0.0715	1.671	0.545	2,215	2,171	16.2	-0.2	18.9
7.13	7.16	310	96	-0.04	0.0716	1.670	0.542	2.212	2.170	16.2	-0.2	18.9
7.15	7.17	310	98	-0.04	0.0717	1.670	0.545	2.215	2.170	16.2	-0.2	18.9
7.16	7.19	310	98	-0.04	0.0719	1.670	0.542	2.212	2.170	16.2	-0.2	18.9
7.18	7.20	310	96	-0.04	0.0720	1.670	0.542	2.211	2.170	16.2	-0.2	18.9
7.19	7.22	309	98	-0.04	0.0722	1.654	0.542	2.206	2.164	16.2	-0.2	18.9
7.21	7.23	309	30	-0.04	0.0723	1.664	0.542	2.205	2.164	16.2	-0.2	18.9
7.23	7.22	306	20	-0.04	0.0725	1,658	0.542	2.200	2.138	16.2	-0.2	18.9
7.26	7.29	306	98	-0.04	0.0729	1.657	0.542	2.199	2,157	16.2	-0.2	18.9
7.28	7.31	306	96	-0.04	0.0731	1.657	0.542	2.199	2.157	16.2	-0.2	18.9
7.29	7.32	306	96	-0.04	0.0732	1.657	0.542	2.199	2.157	16.2	-0.2	19.0
7.31	7.33	306	98	-0.04	0.0733	1.656	0.542	2.198	2.156	16.2	-0.2	19.0
7.33	7.36	306	96	-0.04	0.0736	1.656	0.542	2.198	2.156	16.2	-0.2	19.0
7.34	7.37	307	98	-0.04	0.0737	1.650	0.542	2.192	2.150	16.2	-0.2	19.0
7.36	7.38	307	98	-0.04	0.0738	1.650	0.542	2.192	2.150	16.2	-0.2	19.0
7.38	7.41	300	30	-0.04	0.0741	1,644	0.5%2	2.185	2144	16.2	-0.2	190
7.41	7.43	305	20	-0.04	0.0743	1.644	0.539	2,183	2144	16.2	-0.2	190
7.42	7.45	306	98	-0.04	0.0745	1.644	0.542	2.185	2.144	16.2	-0.2	19.0
7.44	7.46	306	29	-0.04	0.0746	1.643	0.539	2.182	2.143	16.2	-0.2	19.0
7.45	7.46	306	96	-0.04	0.0748	1.643	0.542	2.185	2.143	16.2	-0.2	19.0
7.47	7.50	306	96	-0.04	0.0750	1.643	0.542	2.185	2.143	16.2	-0.2	19.0
7.49	7.51	305	29	-0.04	0.0751	1.637	0.539	2.176	2.137	16.2	-0.2	19.0

Deformació	Deform. Unitaria	Celda	Presión de	Incremento deporos	Deform.	Esfuerzo Desviador	s'3 Efectivo	s'1 Efectivo	s1 Total	Lectura bureta	Cambio volumen	Area
n (mm)	*	Carga N	poros (kPa)	(kgt/cm <sup>2</sup> )	Unitaria	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(cm³)	(cm <sup>3</sup> )	corregida
7.50	7.53	305	98	-0.04	0.0258	1.635	0.542	2 177	2 195	16.4	-0.4	19.0
7.51	7.54	305	99	-0.04	0.0754	1.635	0.539	2.174	2.135	16.4	-0.4	19.0
7.53	7.56	304	98	-0.04	0.0756	1.629	0.542	2.171	2.129	16.4	-0.4	19.0
7.54	7.57	304	29	-0.04	0.0757	1.629	0.539	2.168	2.129	16.4	-0.4	19.0
7.56	7.59	304	98	-0.04	0.0759	1.629	0.542	2.170	2.129	16.4	-0.4	19.0
7.59	7.61	304	99	-0.04	0.0761	1.628	0.539	2.167	2.128	16.4	-0.4	19.0
7.60	7.63	304	- 29	-0.04	0.0763	1.628	0.539	2.167	2.128	16.4	-0.4	19.0
7.61	7.64	303	98	-0.04	0.0764	1.622	0.542	2.164	2.122	16.4	-0.4	19.0
7.63	7.66	303	99	-0.04	0.0766	1.622	0.539	2.161	2.122	16.4	-0.4	19.0
7.09	7.67	303	20	-0.04	0.0767	1.622	0.539	2.161	2.122	16.4	-0.4	19.0
7.68	7.71	303	98	-0.04	0.0771	1.621	0.542	2.163	2.121	16.4	-0.4	19.1
7.69	7.72	303	28	-0.04	0.0772	1.621	0.542	2.163	2.121	16.4	-0.4	19.1
7.72	7.74	303	29	-0.04	0.0774	1.621	0.539	2,160	2,121	16.4	-0.4	19.1
7.73	7.76	304	99	-0.04	0.0776	1.626	0.539	2.165	2.126	16.4	-0.4	19.1
7.75	7.78	304	99	-0.04	0.0778	1.625	0.539	2.164	2.125	16.4	-0.4	19.1
7.77	7.80	304	99	-0.04	0.0780	1.625	0.539	2.164	2.125	16.4	-0.4	19.1
7.78	7.81	304	98	-0.04	0.0781	1.625	0.542	2.167	2.125	16.4	-0.4	19.1
7.80	7.83	305	58	-0.04	0.0783	1.630	0.542	2.172	2.130	16.4	-0.4	19.1
7.82	7.85	305	98	-0.04	0.0785	1.630	0.542	2.171	2.130	16.4	-0.4	19.1
7.83	7.86	305	99	-0.04	0.0786	1.629	0.539	2.168	2.129	16.4	-0.4	19.1
7.84	7.87	306	99	-0.04	0.0787	1.634	0.539	2.173	2.134	16.4	-0.4	19.1
7.86	7.89	306	96	-0.04	0.0789	1.634	0.542	2.176	2.134	16.4	-0.4	19.1
7.67	7.90	305	36	-0.04	0.0790	1.629	0.542	2.170	2.129	10.4	-0.4	19.1
7.89	7.92	306	56	-0.04	0.0792	1.634	0.542	2.175	2.134	16.4	-0.4	19.1
7.60	7.00	306	98	-0.04	0.0295	1.633	0.539	2175	2.134	16.4	-04	10.1
7.94	7,97	307	28	-0.04	0.0797	1.638	0.542	2,180	2.138	16.4	-0.4	19.1
7.96	7.99	307	98	-0.04	0.0799	1.638	0.542	2.179	2.138	16.4	-0.4	19.1
7.97	8.00	307	98	-0.04	0.0800	1.637	0.542	2.179	2.137	16.4	-0.4	19.1
8.00	8.03	307	98	-0.04	0.0803	1.636	0.542	2.178	2.136	16.5	-0.5	19.1
8.01	8.04	307	98	-0.04	0.0804	1.636	0.542	2.178	2.136	16.5	-0.5	19.1
8.02	8.06	308	98	-0.04	0.0806	1.641	0.542	2.183	2.141	16.5	-0.5	19.1
8.05	8.08	308	98	-0.04	0.0808	1.641	0.542	2.182	2.141	16.5	-0.5	19.1
8.06	8.09	308	98	-0.04	0.0809	1.640	0.542	2.182	2.140	16.5	-0.5	19.1
8.08	8.11	307	98	-0.04	0.0811	1.635	0.542	2.176	2.135	16.5	-0.5	19.1
8.10	8.13	307	98	-0.04	0.0813	1.634	0.542	2.176	2.134	16.5	-0.5	19.1
8.11	8.14	306	36	-0.04	0.0816	1.639	0.542	2.101	2.139	16.5	-0.5	19.2
8.15	8.18	307	98	-0.04	0.0818	1.634	0.542	2.175	2.134	16.5	-05	19.2
817	8.20	307	98	-0.04	0.0820	1.633	0.542	2175	2 198	16.5	-05	19.2
8.18	8.21	307	28	-0.04	0.0821	1.633	0.542	2.175	2,133	16.5	-0.5	19.2
8.20	8.23	307	98	-0.04	0.0823	1.633	0.542	2.174	2.133	16.5	-0.5	19.2
8.22	8.25	306	98	-0.04	0.0825	1.627	0.542	2.169	2.127	16.5	-0.5	19.2
8.23	8.26	306	98	-0.04	0.0826	1.627	0.542	2.168	2.127	16.5	-0.5	19.2
8.25	8.28	306	58	-0.04	0.0828	1.626	0.542	2.168	2.126	16.5	-0.5	19.2
8.26	8.29	305	98	-0.04	0.0829	1.621	0.542	2.163	2.121	16.5	-0.5	19.2
8.28	8.31	305	99	-0.04	0.0831	1.620	0.539	2.159	2.120	16.5	-0.5	19.2
8.30	8.33	305	58	-0.04	0.0833	1.620	0.542	2.162	2.120	16.5	-0.5	19.2
6.31	8.34	304	36	-0.04	0.0834	1.615	0.542	2.156	2.115	16.5	-0.5	19.2
8.33	8.99	304		-0.04	0.0939	1,004	0.539	3,459	2.114	10.3	-0.5	10.2
8.30	8.40	304		-0.04	0.0840	1.634	0.542	2.155	2 114	16.5	-0.5	19.2
8.38	8.42	304	20	-0.04	0.0842	1,613	0.539	2,152	2,113	16.5	-0.5	19.2
8,40	8.43	303	29	-0.04	0.0843	1.608	0.539	2.147	2.108	16.5	-0.5	19.2
8.42	8.45	303	99	-0.04	0.0845	1.607	0.539	2.146	2.107	16.5	-0.5	19.2
8.43	8.47	303	29	-0.04	0.0847	1.607	0.539	2.146	2.107	16.5	-0.5	19.2
8.46	8.49	303	99	-0.04	0.0849	1.607	0.539	2.146	2.107	16.5	-0.5	19.2
8,47	8.50	303	99	-0.04	0.0850	1.607	0.539	2.146	2.107	16.5	-0.5	19.2
8.48	8.52	303	99	-0.04	0.0852	1.606	0.539	2.145	2.106	16.5	-0.5	19.2
8.50	8.53	303	99	-0.04	0.0853	1.605	0.539	2.144	2.105	16.6	-0.6	19.2
8.52	8.55	302	99	-0.04	0.0855	1.600	0.539	2.139	2.100	16.6	-0.6	19.2
8.53	8.57	302	99	-0.04	0.0857	1.599	0.539	2.138	2.099	16.6	-0.6	19.2
8.55	8.58	302	99	-0.04	0.0858	1.599	0.539	2.138	2.099	16.6	-0.6	19.3
8.57	8.60	302		-0.04	0.0960	1.599	0.539	2.138	2,039	16.6	-0.6	19.3
8.60	8.63	301	20	-0.04	0.0863	1.500	0.536	2,129	2,093	16.6	-0.6	19.3
8.62	8.65	300	99	-0.04	0.0865	1.587	0.536	2,128	2,087	16.6	-0.6	19.3
8.63	8.67	301	99	-0.04	0.0867	1.592	0.536	2.128	2.092	16.6	-0.6	19.3

Deformació	Deform.	Celda	Presión de	Incremento	Deform.	Esfuerzo Desviador	s'3 Hertim	s'1 Ffertiwa	s1 Total	Lectura	Cambio	Area
n (mm)	*	Carga N	poros (kPa)	(kgf/cm <sup>2</sup> )	Unitaria	(kgf/cm <sup>2</sup> )	(had (and))	(had form?)	(bard (see 2)	(cm³)	(cm <sup>3</sup> )	corregida
2.65	2.62	300	00	.0.04	0.0968	1 607	0.536	(kgr/cm )	2,087	16.6	.0.6	10.2
8.67	8,70	300	99	-0.04	0.0870	1.586	0.539	2.125	2.085	16.6	-0.6	19.3
8.68	8.72	300	99	-0.04	0.0872	1.586	0.536	2.122	2.086	16.6	-0.6	19.3
8.70	8.73	300	99	-0.04	0.0873	1.586	0.536	2.122	2.086	16.6	-0.6	19.3
8.71	8.75	300	99	-0.04	0.0875	1.586	0.536	2.122	2.086	16.6	-0.6	19.3
8.74	8.77	300	99	-0.04	0.0877	1.585	0.536	2.121	2.085	16.6	-0.6	19.3
8.75	8.78	299	99	-0.04	0.0878	1.580	0.539	2.119	2.080	16.6	-0.6	19.3
8.76	8.80	299	99	-0.04	0.0680	1.579	0.536	2.116	2.079	16.6	-0.6	19.3
8,79	8.82	299	99	-0.04	0.0682	1.579	0.536	2.115	2.079	16.6	-0.6	19.3
8.82	8.86	200	30	-0.04	0.0886	1.579	0.536	2.115	2.079	16.6	-0.6	19.3
8.83	8.86	299	29	-0.04	0.0886	1.578	0.536	2.115	2.078	16.6	-0.6	19.3
8.85	8.88	299	99	-0.04	0.0888	1.578	0.536	2.114	2.078	16.6	-0.6	19.3
8.86	8.90	299	99	-0.04	0.0890	1.578	0.536	2.114	2.078	16.6	-0.6	19.3
8.89	8.92	299	99	-0.04	0.0892	1.577	0.536	2.114	2.077	16.6	-0.6	19.3
8.90	8.93	299	29	-0.04	0.0893	1.577	0.539	2.116	2.077	16.6	-0.6	19.3
8.92	8.96	299	99	-0.04	0.0896	1.577	0.536	2.113	2.077	16.6	-0.6	19.3
8.94	8.98	300	99	-0.04	0.0898	1.582	0.536	2.118	2.082	16.6	-0.6	19.3
8.90	8.99	300	39	-0.04	0.0899	1.561	0.536	2.118	2.081	16.6	-0.6	19.5
8.97	9.01	300	39	-0.04	0.0902	1.561	0.536	2.117	2.081	16.6	-0.6	19.3
9.01	9.04	300	99	-0.04	0.0904	1.580	0.536	2.120	2.081	16.7	-0.5	19.5
9.02	9.05	300	99	-0.04	0.0905	1.579	0.536	2.116	2.079	16.7	-0.7	19.4
9.04	9.07	300	99	-0.04	0.0907	1.579	0.536	2.115	2.079	16.7	-0.7	19.4
9.05	9.09	300	99	-0.04	0.0909	1.579	0.536	2.115	2.079	16.7	-0.7	19.4
9.08	9.12	300	99	-0.04	0.0912	1.578	0.536	2.115	2.078	16.7	-0.7	19.4
9.09	9.13	300	99	-0.04	0.0913	1.578	0.536	2.114	2.078	16.7	-0.7	19.4
9.11	9.14	300	99	-0.04	0.0914	1.578	0.536	2.114	2.078	16.7	-0.7	19.4
9.12	9.16	301	99	-0.04	0.0916	1.583	0.536	2.119	2.083	16.7	-0.7	19.4
9.14	9.17	300	99 20	-0.04	0.0917	1.577	0.536	2.114	2.077	16.7	-0.7	19.4
9.10	9.19	300	30	-0.04	0.0922	1.502	0.536	2.118	2.082	16.7	-0.7	19.4
9,19	9.23	300	29	-0.04	0.0923	1.576	0.536	2.113	2.076	16.7	-0.7	19.4
9.21	9.24	302	99	-0.04	0.0924	1.587	0.536	2.123	2.087	16.7	-0.7	19.4
9.22	9.26	301	99	-0.04	0.0926	1.581	0.536	2.117	2.081	16.7	-0.7	19.4
9.25	9.28	302	99	-0.04	0.0928	1.586	0.536	2.122	2.086	16.7	-0.7	19.4
9.26	9.29	302	99	-0.04	0.0929	1.586	0.539	2.125	2.086	16.7	-0.7	19.4
9.22	9.25	302	99	-0.03	0.0925	1.587	0.533	2.120	2.087	16.7	-0.7	19.4
9.29	9.32	305	99 20	-0.04	0.0932	1.591	0.536	2.127	2.091	16.7	-0.7	19.4
9.30	3.34	300	30	-0.04	0.0004	1.550	0.530	2.120	2,090	16.7	-0.7	10.4
9.32	9.30	303	99	-0.04	0.0937	1.500	0.536	2.120	2,090	16.7	-0.7	19.4
9.36	9,40	303	29	-0.04	0.0940	1.589	0.536	2.125	2.089	16.7	-0.7	19.4
9.37	9.41	303	99	-0.04	0.0941	1.589	0.536	2.125	2.089	16.7	-0.7	19.4
9.39	9.42	308	99	-0.04	0.0942	1.589	0.536	2.125	2.089	16.7	-0.7	19.4
9.40	9.44	302	99	-0.04	0.0944	1.583	0.536	2.119	2.083	16.7	-0.7	19.4
9.42	9.46	303	99	-0.04	0.0346	1.588	0.536	2.124	2.088	16.7	-0.7	19.4
9,44	9.48	302	99	-0.04	0.0048	1.583	0.536	2.119	2.083	16.7	-0.7	19.5
9.45	9.49	308	39	-0.03	0.0250	1.568	0.533	2,121	2,085	16.7	-0.7	10.5
9,48	9.52	303	99	-0.03	0.0952	1.587	0.533	2.121	2.087	16.7	-0.7	19.5
9.50	9.54	303	99	-0.03	0.0954	1.586	0.533	2.119	2.086	16.8	-0.8	19.5
9.52	9.55	308	99	-0.03	0.0955	1.586	0.533	2.119	2.086	16.8	-0.8	19.5
9.54	9.58	302	99	-0.03	0.0958	1.580	0.533	2.113	2.080	16.8	-0.8	19.5
9.55	9.59	303	99	-0.03	0.0959	1.585	0.533	2.118	2.085	16.8	-0.8	19.5
9.57	9.61	308	99	-0.03	0.0961	1.585	0.533	2.118	2.085	16.8	-0.8	19.5
9.58	9.62	304	99	-0.03	0.0962	1.590	0.533	2.123	2.090	16.8	-0.8	19.5
9.60	9.64	304	99	-0.03	0.0964	1.589	0.533	2.123	2.089	16.8	-0.8	19.5
9.61	9.65	304	39	-0.03	0.0965	1.589	0.533	2,123	2,089	16.8	-0.8	10.5
9.65	9.68	304	20	-0.03	0.0968	1,589	0.533	2,122	2,089	16.8	-0.8	19.5
9.67	9.71	304	99	-0.03	0.0971	1.588	0.533	2.122	2.088	16.8	-0.8	19.5
9.68	9.72	304	99	-0.03	0.0972	1.588	0.533	2.121	2.088	16.8	-0.8	19.5
9.70	9.73	304	99	-0.03	0.0973	1.588	0.531	2.118	2.088	16.8	-0.8	19.5
9.72	9.76	304	99	-0.03	0.0976	1.587	0.531	2.118	2.087	16.8	-0.8	19.5
9.73	9.77	304	99	-0.03	0.0977	1.587	0.533	2.121	2.087	16.8	-0.8	19.5
9.75	9.79	304	99	-0.03	0.0979	1.587	0.533	2.120	2.087	16.8	-0.8	19.5
9.77	9.81	304	99	-0.03	0.0981	1.586	0.531	2.117	2.086	16.8	-0.8	19.5
9.78	9.82	304	99	-0.03	0.0982	1.586	0.531	2.117	2.086	16.8	-0.8	19.5

Deformació n (mm)	Deform. Unitaria	Ceida Cerra N	Presión de poros (kPa)	Incremento deporos	Deform. Unitaria	Esfuerzo Desviador	s'3 Efectivo	s'1 Efectivo	s1 Total	Lectura bureta	Cambio volumen	Area
	×			(kgf/cm <sup>2</sup> )		(kgf/cm <sup>*</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(cm <sup>3</sup> )	(cm <sup>3</sup> )	
9.80	9.84	304	99	-0.03	0.0384	1.586	0.531	2.117	2.086	16.8	-0.8	19.5
9.81	9.85	304	99	-0.03	0.0985	1.586	0.531	2.116	2.086	16.8	-0.8	19.5
9.83	9.87	303	99	-0.03	0.0987	1.580	0.533	2.114	2.080	16.8	-0.8	19.5
9.85	9.89	303	29	-0.03	0.0989	1.580	0.531	2.111	2.080	16.8	8.0-	19.6
9.87	9.91	308	99	-0.03	0.0991	1.579	0.531	2.110	2.079	16.8	-0.8	19.6
9.88	9.92	308	29	-0.03	0.0992	1.579	0.531	2.110	2.079	16.8	8.0-	19.6
9.91	9.94	302	99	-0.03	0.0294	1.574	0.531	2.104	2.074	16.8	8.0-	19.6
9.91	9.95	302	99	-0.03	0.0995	1.574	0.531	2.104	2.074	16.8	8.0-	19.6
9.93	9.97	301	29	-0.03	0.0997	1.568	0.531	2.099	2.068	16.8	8.0-	19.6
3.30	3.39	300	20	-0.03	0.1000	1.502	0.531	2,095	2,062	16.8	-0.8	19.0
9.90	10.02	300	90	-0.03	0.1002	1.562	0.531	2,093	2.062	16.8	-0.8	19.6
10.00	10.04	300	20	-0.03	0.1004	1.561	0.531	2,091	2.061	16.9	-0.9	19.6
10.01	10.05	299	99	-0.03	0.1005	1.555	0.531	2.086	2.055	16.9	-0.9	19.6
10.04	10.07	298	29	-0.03	0.1007	1.550	0.531	2,080	2,050	16.9	-0.9	19.6
10.05	10.09	297	99	-0.03	0.1009	1.544	0.531	2.075	2.044	16.9	-0.9	19.6
10.06	10.10	297	29	-0.03	0.1010	1.544	0.531	2.075	2.044	16.9	-0.9	19.6
10.08	10.12	297	99	-0.03	0.1012	1.544	0.531	2.074	2.044	16.9	-0.9	19.6
10.10	10.14	297	99	-0.03	0.1014	1.543	0.531	2.074	2.043	16.9	-0.9	19.6
10.12	10.16	296	29	-0.03	0.1016	1.538	0.531	2.069	2.038	16.9	-0.9	19.6
10.14	10.17	295	99	-0.03	0.1017	1.532	0.531	2.063	2.082	16.9	-0.9	19.6
10.15	10.19	296	29	-0.03	0.1019	1.537	0.531	2.068	2.037	16.9	-0.9	19.6
10.16	10.20	296	100	-0.03	0.1020	1.537	0.528	2.065	2.037	16.9	-0.9	19.6
10.19	30.23	296	99	-0.03	0.1025	1.537	0.531	2.067	2.087	16.9	-0.9	19.6
10.20	30.24	295	29	-0.03	0.1024	1.531	0.531	2.062	2.081	16.9	-0.9	19.6
10.21	30.25	235	20	-0.03	0.1027	1.501	0.531	2,062	2.091	16.9	-0.9	19.0
10.24	10.28	295	90	-0.03	0.1028	1.531	0.531	2.061	2.031	16.9	-0.9	19.6
10.27	10.30	295	29	-0.03	0.1030	1.530	0.531	2.061	2,030	16.9	-0.9	19.7
10.28	10.32	295	99	-0.03	0.1032	1.530	0.531	2.061	2,030	16.9	-0.9	19.7
10.29	10.33	295	99	-0.03	0.1033	1.530	0.531	2.060	2.030	16.9	-0.9	19.7
10.32	10.36	295	99	-0.03	0.1036	1.529	0.531	2.060	2.029	16.9	-0.9	19.7
10.33	10.37	295	99	-0.03	0.1037	1.529	0.531	2.060	2.029	16.9	-0.9	19.7
10.35	10.39	295	99	-0.03	0.1039	1.529	0.531	2.059	2.029	16.9	-0.9	19.7
10.37	10.41	295	99	-0.03	0.1041	1.529	0.531	2.059	2.029	16.9	-0.9	19.7
10.38	10.42	294	99	-0.03	0.1042	1.523	0.531	2.054	2.023	16.9	-0.9	19.7
10.39	10.43	294	29	-0.03	0.1043	1.523	0.531	2.054	2.023	16.9	-0.9	19.7
10.42	30.46	295	29	-0.03	0.1046	1.528	0.531	2.058	2.028	16.9	-0.9	19.7
10.44	10.48	209	20	-0.03	0.1048	1.522	0.531	2,053	2,022	16.9	-0.9	19.7
10.47	20,46	204	20	-0.03	0.1051	1,522	0.531	2,053	2,022	10.9	-0.9	40.7
10.48	10.52	294	90	-0.03	0.1052	1.522	0.531	2.052	2.022	16.9	-0.9	19.7
10.50	10.54	294	20	-0.03	0.1054	1.520	0.531	2.051	2.020	17.0	-1.0	19.7
10.52	10.56	294	99	-0.03	0.1056	1.520	0.531	2.051	2.020	17.0	-1.0	19.7
10.53	10.57	294	- 29	-0.03	0.1057	1.520	0.531	2.050	2.020	17.0	-1.0	19.7
10.55	10.59	294	99	-0.03	0.1059	1.519	0.531	2.050	2.019	17.0	-1.0	19.7
10.57	10.61	294	99	-0.03	0.1061	1.519	0.531	2.050	2.019	17.0	-1.0	19.7
10.58	10.62	295	99	-0.03	0.1062	1.524	0.531	2.055	2.024	17.0	-1.0	19.7
10.60	10.64	298	99	-0.03	0.1064	1.514	0.531	2.044	2.014	17.0	-1.0	19.7
10.61	10.65	298	99	-0.03	0.1065	1.513	0.531	2.044	2.013	17.0	-1.0	19.7
10.62	10.67	298	99	-0.03	0.1067	1.513	0.531	2.044	2.013	17.0	-1.0	19.7
10.64	10.68	296	99	-0.03	0.1068	1.518	0.531	2.049	2.018	17.0	-1.0	19.7
10.65	10.70	209	22	-0.03	0.1070	1.518	0.531	2,048	2018	17.0	-1.0	10.0
10.20	10.74	294	20	-0.03	0.1074	1.517	0.531	2.048	2,017	17.0	-1.0	19.8
10.71	10.75	295	20	-0.03	0.1075	1.522	0.531	2,058	2,022	17.0	-1.0	19.8
10.73	10.77	295	99	-0.03	0,1077	1,522	0.531	2,052	2,022	17.0	-1.0	19.8
10.75	10.79	295	100	-0.03	0.1079	1.521	0.528	2.049	2.021	17.0	-1.0	19.8
10.76	10.80	295	100	-0.03	0.1080	1.521	0.528	2.049	2.021	17.0	-1.0	19.8
10.78	10.82	294	100	-0.03	0.1082	1.516	0.528	2.044	2.016	17.0	-1.0	19.8
10.80	10.84	294	100	-0.03	0.1084	1.515	0.528	2.043	2.015	17.0	-1.0	19.8
10.81	30.85	294	100	-0.03	0.1085	1.515	0.528	2.043	2.015	17.0	-1.0	19.8
10.83	10.87	294	100	-0.03	0.1087	1.515	0.528	2.043	2.015	17.0	-1.0	19.8
10.85	10.89	294	100	-0.03	0.1089	1.514	0.528	2.042	2.014	17.0	-1.0	19.8
10.86	10.90	294	100	-0.03	0.1090	1.514	0.528	2.042	2.014	17.0	-1.0	19.8
10.88	30.92	294	100	-0.03	0.1092	1.514	0.528	2.042	2.014	17.0	-1.0	19.8
10.89	20.95	290	100	-0.03	0.1095	1.509	0.528	2.036	2.009	17.0	-1.0	19.8
10.90	10.95	206	100	-0.03	0.1095	1.513	0.528	2,091	2013	17.0	-1.0	19.8

Defense in	Deform.		Parelle 1	Incremento	D.C.	Esfuerzo	53	s'1	<b>s1</b>	Lectura	Cambio	
n (mm)	Unitaria	Celda Carga N	poros (kPa)	deporos	Deform. Unitaria	Desviador	Efectivo	Efectivo	Total	bureta	volumen	Area corregida
	*			(kgf/cm*)		(kgf/cm*)	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm²)	(cm*)	(cm*)	
10.94	10.98	298	100	-0.03	0.1098	1.508	0.525	2.033	2.008	17.0	-1.0	19.8
10.96	11.02	299	100	-0.03	0.1102	1.512	0.525	2.040	2.002	17.0	-1.0	19.8
10.99	11.03	298	100	-0.03	0.1103	1.507	0.525	2.032	2.007	17.0	-1.0	19.8
11.01	11.05	298	100	-0.03	0.1105	1.506	0.525	2.031	2.006	17.1	-4.1	19.8
11.03	11.07	298	100	-0.03	0.1107	1.505	0.528	2.053	2.005	17.1	-4.1	19.8
11.04	11.10	298	100	-0.03	0.1110	1.505	0.525	2,030	2.005	17.1	-1.1	19.8
11.08	11.12	298	100	-0.03	0.1112	1.505	0.525	2.030	2.005	17.1	-1.1	19.9
11.09	11.13	294	100	-0.03	0.1113	1.510	0.525	2.035	2.010	17.1	-4.1	19.9
11.11	11.15	294	100	-0.03	0.1115	1.509	0.525	2.034	2.009	17.1	-1.1	19.9
11.15	11.18	294	100	-0.03	0.1118	1.509	0.525	2.034	2.009	17.1	-4.1	19.9
11.16	11.20	294	100	-0.03	0.1120	1.508	0.525	2.033	2.008	17.1	-1.1	19.9
11.17	11.21	294	100	-0.03	0.1121	1.508	0.525	2.053	2.008	17.1	-4.1	19.9
11.18	11.23	298	100	-0.03	0.1123	1.503	0.525	2.028	2.003	17.1	-1.1	19.9
11.21	11.25	295	100	-0.03	0.1125	1.502	0.525	2.028	2.002	17.1	-1.1	19.9
11.23	11.28	298	100	-0.03	0.1128	1.502	0.525	2.027	2.002	17.1	-1.1	19.9
11.25	11.29	298	100	-0.02	0.1129	1.502	0.522	2.024	2.002	17.1	-4.1	19.9
11.26	11.31	298	100	-0.03	0.1131	1.501	0.525	2.027	2.001	17.1	-4.1	19.9
11.28	11.32	298	100	-0.03	0.1132	1.501	0.525	2.026	2.001	17.1	-4.1	19.9
11.30	11.36	294	100	-0.03	0.1136	1.506	0.525	2.051	2.006	17.1	-4.1	19.9
11.33	11.37	294	100	-0.03	0.1137	1.505	0.525	2.081	2.005	17.1	-1.1	19.9
11.34	11.39	294	100	-0.03	0.1139	1.505	0.525	2.030	2.005	17.1	-1.1	19.9
11.36	11.40	294	100	-0.03	0.1140	1.505	0.525	2.030	2.005	17.1	-1.1	19.9
11.38	11.42	295	100	-0.03	0.1142	1.510	0.525	2.035	2.010	17.1	-4.1	19.9
11.39	11.45	235	100	-0.03	0.1145	1.500	0.525	2,035	2.000	17.1	-1.1	19.9
11.43	11.47	295	100	-0.03	0.1147	1.509	0.525	2.034	2.009	17.1	-4.1	19.9
11.44	11.48	295	100	-0.03	0.1148	1.509	0.525	2.034	2.009	17.1	-4.1	19.9
11.45	11.49	296	100	-0.03	0.1149	1.514	0.525	2.039	2.014	17.1	-4.1	19.9
11.47	11.52	295	100	-0.03	0.1152	1.513	0.525	2,058	2.013	17.1	-1.1	19.9
11.50	11.54	297	100	-0.03	0.1154	1.517	0.525	2.042	2.017	17.2	-1.2	20.0
11.52	11.56	297	100	-0.03	0.1156	1.517	0.525	2.042	2.017	17.2	-1.2	20.0
11.54	11.58	297	100	-0.03	0.1158	1.517	0.525	2.042	2.017	17.2	-1.2	20.0
11.55	11.59	297	100	-0.03	0.1159	1.516	0.525	2.041	2.016	17.2	-1.2	20.0
11.57	11.61	297	100	-0.03	0.1162	1.510	0.525	2.091	2.016	17.2	-1.2	20.0
11.60	11.65	297	100	-0.03	0.1165	1.515	0.525	2.040	2.015	17.2	-1.2	20.0
11.62	11.66	298	100	-0.03	0.1166	1.520	0.525	2.045	2.020	17.2	-1.2	20.0
11.63	11.67	298	100	-0.03	0.1167	1.520	0.525	2.045	2.020	17.2	-1.2	20.0
11.64	11.69	298	100	-0.03	0.1169	1.520	0.525	2.045	2.020	17.2	-1.2	20.0
11.67	11.72	298	100	-0.03	0.1172	1.519	0.525	2.044	2.019	17.2	-1.2	20.0
11.69	11.74	298	100	-0.03	0.1174	1.519	0.525	2.044	2.019	17.2	-1.2	20.0
11.71	11.75	299	100	-0.03	0.1175	1.524	0.525	2.049	2.024	17.2	-1.2	20.0
11.72	11.77	299	100	-0.03	0.1177	1.524	0.525	2.049	2.024	17.2	-1.2	20.0
11.74	11.80	299	100	-0.03	0.1180	1.523	0.525	2.048	2.023	17.2	-4.2	200
11.77	11.82	290	100	-0.03	0.1182	1.523	0.525	2.048	2.023	17.2	-1.2	20.0
11.79	11.83	299	100	-0.03	0.1183	1.522	0.525	2.047	2.022	17.2	-1.2	20.0
11.81	11.85	299	100	-0.03	0.1185	1.522	0.525	2.047	2.022	17.2	-1.2	20.0
11.82	11.87	300	100	-0.03	0.1187	1.527	0.525	2,052	2.027	17.2	-12	20.0
11.85	11.90	299	100	-0.03	0.1190	1.521	0.525	2.046	2.021	17.2	-1.2	20.0
11.87	11.91	300	100	-0.03	0.1191	1.526	0.525	2.051	2.026	17.2	-1.2	20.0
11.89	11.93	300	100	-0.03	0.1193	1.526	0.525	2.051	2.026	17.2	-1.2	20.0
11.90	11.95	300	100	-0.03	0.1195	1.526	0.525	2.051	2.026	17.2	-1.2	20.0
11.92	11.90	300	100	-0.03	0.1100	1.525	0.525	2.050	2.025	17.2	-4.2	200
11.95	11.99	299	100	-0.02	0.1199	1.520	0.522	2.042	2.020	17.2	-1.2	20.1
11.97	12.01	299	100	-0.03	0.1201	1.519	0.525	2.044	2.019	17.2	-1.2	20.1
11.97	12.02	299	100	-0.02	0.1202	1.519	0.522	2.041	2.019	17.2	-1.2	20.1
12.00	12.04	298	100	-0.02	0.1204	1.513	0.522	2.035	2.013	17.3	-13	20.1
12.01	12.06	299	100	-0.02	0.1206	1.518	0.522	2,040	2.018	17.3	-13	20.1
			and a second	and being	<ul> <li>Annual Annual Annua</li> </ul>		<ul> <li>Manufacture</li> </ul>	a second s	and the second se			

Deformació n (mm)	Deform. Unitaria	Celda Carpa N	Presión de poros (kPa)	Incremento deporos	Deform. Unitaria	Esfuerzo Desviador	s'3 Efectivo	s'1 Efectivo	s1 Total	Lectura bureta	Cambio volumen	Area
	×			(kgf/cm <sup>*</sup> )		(kgf/cm <sup>*</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(cm³)	(cm <sup>3</sup> )	
12.05	12.09	298	100	-0.02	0.1209	1.512	0.522	2.034	2.012	17.3	-1.3	20.1
12.06	12.11	297	100	-0.03	0.1211	1.507	0.525	2.032	2.007	17.3	-1.3	20.1
12.08	12.12	297	100	-0.02	0.1212	1.507	0.522	2.029	2.007	17.3	-1.3	20.1
12.09	12.14	297	100	-0.02	0.1214	1.506	0.522	2.029	2.006	17.3	-1.3	20.1
12.10	12.15	297	100	-0.02	0.1215	1.506	0.522	2.028	2.006	17.3	-1.3	20.1
12.13	12.17	297	100	-0.02	0.1217	1.506	0.522	2.028	2.006	17.3	-1.3	20.1
12.14	12.19	296	100	-0.02	0.1219	1.500	0.522	2.023	2.000	17.3	-1.3	20.1
12.15	12.20	296	100	-0.02	0.1220	1.500	0.522	2.022	2.000	17.3	-13	20.1
12.17	12.22	296	100	-0.03	0.1222	1.500	0.525	2.025	2,000	17.3	-1.3	20.1
12.10	12.20	296	100	-0.02	0.1225	1,499	0.522	2.022	1 999	17.3	-1.3	20.1
12.22	12.27	296	100	-0.02	0.1227	1.499	0.522	2.021	1,999	17.3	-1.3	20.1
12.23	12.28	296	100	-0.02	0.1228	1.499	0.522	2.021	1,999	17.3	-1.3	20.1
12.25	12,30	296	100	-0.02	0.1230	1.498	0.522	2.021	1,998	17.3	-1.3	20.1
12.27	12.32	296	100	-0.02	0.1232	1.498	0.522	2.020	1,998	17.3	-1.3	20.1
12.28	12.33	296	100	-0.02	0.1233	1.498	0.522	2.020	1.998	17.3	-1.3	20.1
12.30	12.34	296	100	-0.02	0.1234	1.498	0.522	2.020	1.998	17.3	-1.3	20.1
12.32	12.37	296	100	-0.02	0.1237	1.497	0.522	2.020	1.997	17.3	-1.3	20.2
12.33	12.38	296	100	-0.02	0.1238	1.497	0.522	2.019	1.997	17.3	-1.3	20.2
12.35	12.40	296	100	-0.02	0.1240	1.497	0.522	2.019	1.997	17.3	-1.3	20.2
12.36	12.41	296	100	-0.02	0.1241	1.497	0.522	2.019	1.997	17.3	-1.3	20.2
12.38	12.42	296	100	-0.02	0.1242	1.496	0.522	2.019	1.996	17.3	-1.3	20.2
12.40	12.45	296	100	-0.02	0.1245	1.496	0.522	2.018	1.996	17.3	-1.3	20.2
12.41	12.46	296	100	-0.02	0.1246	1.495	0.522	2.018	1.996	17.3	-1.3	20.2
12.43	12.48	295	100	-0.02	0.1248	1.490	0.522	2.013	1,990	17.3	-1.3	20.2
12,44	12,49	230	100	-0.02	0.1249	1.490	0.522	2.012	1,990	17.3	-1.3	20.2
12,46	12.51	200	100	-0.02	0.1253	1.485	0.522	2.007	1 995	17.3	-1.3	20.2
12.49	12.54	294	100	-0.02	0.1254	1.484	0.522	2.007	1.984	17.3	-1.3	20.2
12.50	12.55	294	100	-0.02	0.1255	1.483	0.522	2,006	1 983	17.4	-14	20.2
12.52	12.57	294	100	-0.02	0.1257	1.483	0.522	2.005	1.983	17.4	-1.4	20.2
12.53	12.58	294	100	-0.02	0.1258	1.483	0.522	2.005	1.983	17.4	-1.4	20.2
12.54	12.59	298	100	-0.02	0.1259	1.478	0.522	2.000	1.978	17.A	-1.4	20.2
12.56	12.61	294	100	-0.02	0.1261	1.482	0.522	2.005	1.982	17.A	-1.4	20.2
12.57	12.62	298	100	-0.03	0.1262	1.477	0.525	2.002	1.977	17.4	-1.4	20.2
12.59	12.64	293	100	-0.02	0.1264	1.477	0.522	1.999	1.977	17.4	-1.4	20.2
12.61	12.66	294	100	-0.02	0.1266	1.481	0.522	2.004	1.981	17.A	-1.4	20.2
12.64	12.68	298	100	-0.03	0.1268	1.476	0.525	2.001	1.976	17A	-1.4	20.2
12.65	12.70	295	100	-0.03	0.1270	1.475	0.525	2.001	1.976	17.4	-1.4	20.2
12.67	12.72	295	100	-0.02	0.1272	1.475	0.522	1.996	1.975	17.4	-1.4	20.2
12.69	12.75	295	100	-0.02	0.1275	1.475	0.522	1.996	1.975	17.4	-1.4	20.2
12.70	12.75	294	100	-0.02	0.1275	1.480	0.522	2,002	1 980	17.4	-14	20.2
12.74	12,79	294	100	-0.03	0.1279	1.479	0.525	2.004	1.979	17.4	-1.4	20.3
12.75	12,80	294	100	-0.02	0.1280	1.479	0.522	2,001	1,979	17.4	-1.4	20.3
12.76	12.81	294	100	-0.03	0.1281	1.479	0.525	2.004	1.979	17.A	-1.4	20.3
12.79	12.84	294	100	-0.03	0.1284	1,479	0.525	2.004	1.979	17.A	-1.4	20.3
12.80	12.85	295	100	-0.03	0.1285	1.478	0.525	2.003	1.978	17.4	-1.4	20.3
12.82	12.87	294	100	-0.02	0.1287	1.478	0.522	2.000	1.978	17.4	-1.4	20.3
12.84	12.89	294	100	-0.03	0.1289	1.478	0.525	2.003	1.978	17.4	-1.4	20.3
12.86	12.91	294	100	-0.02	0.1291	1.477	0.522	2.000	1.977	17.4	-1.4	20.3
12.87	12.92	294	100	-0.02	0.1292	1.477	0.522	1.999	1.977	17.4	-1.4	20.3
12.89	12.94	296	100	-0.03	0.1294	1.477	0.525	2.002	1.977	17.4	-1.4	20.3
12.91	12.96	299	100	-0.03	0.1296	1.476	0.525	2.002	1.976	17.4	-1.4	20.3
12.92	12.97	205	100	-0.03	0.1299	1,476	0.525	2,001	1.975	17.4	-14	20.3
12.06	19.00	204	100	-0.03	0.1301	1,476	0.525	2,002	1.036	17.4		20.3
12.90	13.02	294	100	-0.02	0.1302	1.475	0.522	1 998	1.975	17.4	-44	20.3
12.99	13.04	295	100	-0.03	0.1304	1,480	0.525	2,005	1,980	17.4	-14	20.3
13.01	13.06	295	100	-0.02	0.1306	1,479	0.522	2.001	1.979	17.5	-4.5	20.3
13.02	13.07	295	100	-0.03	0.1307	1.479	0.525	2.004	1.979	17.5	-1.5	20.3
13.04	13.09	295	100	-0.03	0.1309	1.479	0.525	2.004	1.979	17.5	-1.5	20.3
13.06	13.11	295	100	-0.03	0.1311	1.478	0.525	2.003	1.978	17.5	-1.5	20.3
13.07	13.12	295	100	-0.03	0.1312	1.478	0.525	2.003	1.978	17.5	-1.5	20.3
13.09	13.14	296	100	-0.03	0.1314	1.483	0.525	2.008	1.983	17.5	-1.5	20.3
13.11	13.16	296	100	-0.03	0.1316	1.482	0.525	2.007	1.982	17.5	-1.5	20,4
13.12	13.17	295	100	-0.03	0.1317	1.477	0.525	2.002	1.977	17.5	-1.5	20,4
13.14	13.19	296	100	-0.03	0.1319	1.482	0.525	2.007	1.982	17.5	-15	20.4
13.15	13.20	295	100	-0.03	0.1320	1.477	0.525	2.002	1.977	17.5	-1.5	20.4

	2			Increments		<b>Delaware</b>	5'3	s'1	<b>s1</b>	Interes	Combin	
Deformació	Unitaria	Celda	Presión de	deporos	Deform.	Desviador	Efectivo	Efectivo	Total	bureta	volumen	Area
n (mm)	×	Carga N	poros (xera)	(kgf/cm²)	Unitaria	(kgf/cm²)	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(cm³)	(cm <sup>3</sup> )	corregion
13.17	13.23	295	100	-0.03	0.1323	1.476	0.525	2.001	1.976	17.5	-1.5	20.4
13.19	13.24	295	100	-0.03	0.1324	1.476	0.525	2.001	1.976	17.5	-15	20.4
13.20	13.25	295	100	-0.03	0.1325	1.476	0.525	2.001	1.976	17.5	-15	20.4
13.22	13.29	295	100	-0.02	0.1329	1.475	0.525	2.000	1.975	17.5	-1.5	20.4
13.25	13.30	295	100	-0.03	0.1330	1.475	0.525	2.000	1.975	17.5	-1.5	20.4
13.27	13.33	295	100	-0.03	0.1333	1.475	0.525	2.000	1.975	17.5	-1.5	20.4
13.30	13.35	295	100	-0.03	0.1335	1,474	0.525	1.999	1.974	17.5	-1.5	20.4
13.33	13.38	295	100	-0.02	0.1338	1.474	0.522	1.996	1.974	17.5	-1.5	20.4
13.35	13.40	295	100	-0.03	0.1340	1.473	0.525	1.998	1.973	17.5	-1.5	20.4
13.36	13.41	295	100	-0.02	0.1341	1.473	0.522	1.995	1.973	17.5	-1.5	20.4
13.38	13,43	295	100	-0.03	0.1343	1.473	0.525	1.998	1.973	17.5	-15	20.4
13,40	13,45	296	100	-0.03	0.1345	1.470	0.525	1,999	1.978	17.5	-4.5	20.4
13.43	13.48	295	100	-0.02	0.1348	1.472	0.522	1.994	1.972	17.5	-4.5	20.4
13.45	13.50	296	100	-0.02	0.1350	1.477	0.522	1.999	1.977	17.5	-1.5	20.4
13.46	13.51	295	100	-0.02	0.1351	1.471	0.522	1.994	1.971	17.5	-1.5	20.4
13,48	13.54	295	100	-0.02	0.1354	1.471	0.522	1.993	1.971	17.5	-1.5	20.4
13.50	13.55	295	100	-0.02	0.1355	1.470	0.522	1.992	1,920	17.6	-1.6	20.5
13.53	13.59	295	100	-0.02	0.1359	1.469	0.522	1.992	1.969	17.6	-1.6	20.5
13.55	13.60	294	100	-0.02	0.1360	1.464	0.522	1.987	1.964	17.6	-1.6	20.5
13.56	13.61	294	100	-0.03	0.1361	1.464	0.525	1.989	1.954	17.6	-1.6	20.5
13.58	13.64	294	101	-0.02	0.1364	1.464	0.520	1.983	1.964	17.6	-1.6	20.5
13.60	13.66	230	100	-0.02	0.1365	1.458	0.522	1.961	1.953	17.6	-1.6	20.5
13.63	13.68	298	100	-0.02	0.1368	1.458	0.522	1.980	1.958	17.6	-1.6	20.5
13.65	13.70	298	100	-0.02	0.1370	1.458	0.522	1.980	1.958	17.6	-1.6	20.5
13.66	13.71	298	100	-0.02	0.1371	1.457	0.522	1.980	1.957	17.6	-1.6	20.5
13.68	13.73	298	100	-0.02	0.1373	1.457	0.522	1.979	1.957	17.6	-1.6	20.5
13.09	13.77	298	100	-0.02	0.1377	1.456	0.522	1.979	1.956	17.6	-1.6	20.5
13.73	13.78	298	100	-0.02	0.1378	1.456	0.522	1.979	1.956	17.6	-1.6	20.5
13.74	13.79	298	100	-0.02	0.1379	1.456	0.522	1.978	1.956	17.6	-1.6	20.5
13.76	13.81	292	100	-0.02	0.1381	1.451	0.522	1.973	1.951	17.6	-1.6	20.5
13.78	13.83	292	100	-0.02	0.1383	1,450	0.522	1.973	1.950	17.6	-1.6	20.5
13.81	13.86	292	100	-0.02	0.1386	1.450	0.522	1.972	1.950	17.6	-1.6	20.5
13.83	13.88	292	100	-0.02	0.1388	1.450	0.522	1.972	1.950	17.6	-1.6	20.5
13.84	13.90	292	100	-0.03	0.1390	1.449	0.525	1.974	1.949	17.6	-1.6	20.5
13.86	13.91	292	100	-0.02	0.1391	1.449	0.522	1.971	1.949	17.6	-1.6	20.5
13.87	13.92	292	100	-0.03	0.1392	1.449	0.525	1.974	1.949	17.6	-1.6	20.5
13.91	13.96	292	100	-0.02	0.1396	1.448	0.522	1.971	1.948	17.6	-1.6	20.6
13.92	13.97	292	100	-0.03	0.1397	1.448	0.525	1.973	1.948	17.6	-1.6	20.6
13.94	13.99	292	100	-0.03	0.1399	1.448	0.525	1.973	1.948	17.6	-1.6	20.6
13.95	14.00	292	100	-0.03	0.1400	1.448	0.525	1.973	1.948	17.6	-1.6	20.6
13.97	14.04	291	100	-0.03	0.1404	1.442	0.525	1.972	1.942	17.6	-1.6	20.6
14.00	14.05	292	100	-0.03	0.1405	1.445	0.525	1.970	1.945	17.8	-1.8	20.6
14.02	14.08	292	100	-0.03	0.1408	1.445	0.525	1.970	1.945	17.8	-1.8	20.6
14.04	14.09	292	100	-0.03	0.1409	1.445	0.525	1.970	1.945	17.8	-1.8	20.6
14.05	14.10	292	100	-0.03	0.1410	1.444	0.525	1.970	1.944	17.8	-1.8	20.6
14.09	14.14	292	100	-0.03	0.1414	1.444	0.525	1.969	1.944	17.8	-1.8	20.6
14.10	14.15	292	100	-0.03	0.1415	1.444	0.525	1.969	1.944	17.8	-1.8	20.6
14.12	14.18	292	100	-0.03	0.1418	1.443	0.525	1.968	1.943	17.8	-1.8	20.6
14.14	14.19	292	100	-0.03	0.1419	1.443	0.525	1.968	1.943	17.8	-1.8	20.6
14.15	34.21	292	100	-0.03	0.1421	1.443	0.525	1.968	1.943	17.8	-1.8	20.6
14.19	14.24	298	100	-0.03	0.1424	1.447	0.528	1.975	1.947	17.8	-1.8	20.6
14.20	14.26	298	100	-0.03	0.1426	1.447	0.525	1.972	1.947	17.8	-1.8	20.6
14.22	14.27	294	100	-0.03	0.1427	1.452	0.525	1.977	1.952	17.8	-1.8	20.6
14.23	14.29	298	100	-0.03	0.1429	1.446	0.525	1.971	1.946	17.8	-1.8	20.6
14.29	14.30	294	100	-0.03	0.1432	1.451	0.525	1.976	1.951	17.8	-1.6	20.7
14.28	14.34	294	100	-0.03	0.1434	1.450	0.525	1.976	1,950	17.8	-1.8	20.7
14.29	14.35	295	100	-0.03	0.1435	1.455	0.525	1.980	1.955	17.8	-1.8	20.7

	Deferm			Incremento		Diferro	13	s'1	s1	Lecture	Cambin	
Deformació	Unitaria	Celda	Presión de	deporos	Deform.	Desviador	Efectivo	Efectivo	Total	bureta	volumen	Area
n (mm)	*	Carga N	poros (xera)	(kgf/cm <sup>*</sup> )	Unitaria	(kgf/cm²)	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm²)	(cm²)	(cm²)	corregida
14.31	14.36	295	100	-0.03	0.1436	1.455	0.525	1.980	1.985	17.8	-1.8	20.7
14.32	14.38	295	100	-0.03	0.1438	1.455	0.528	1.983	1.985	17.8	-1.8	20.7
14.35	14.41	295	100	-0.03	0.1441	1.454	0.525	1.979	1.954	17.8	-1.8	20.7
14.37	14.43	296	100	-0.03	0.1443	1.459	0.525	1.984	1.989	17.8	-1.8	20.7
14.39	34.44	296	100	-0.03	0.1444	1.459	0.528	1.986	1.959	17.8	-1.8	20.7
14.42	14.48	296	100	-0.03	0.1448	1.458	0.528	1.965	1.958	17.8	-1.8	20.7
14.45	14.50	296	100	-0.03	0.1450	1.458	0.525	1.963	1.958	17.8	-1.8	20.7
14.46	14.52	296	100	-0.03	0.1452	1.457	0.525	1.982	1.957	17.8	-1.8	20.7
14.47	14.55	297	100	-0.03	0.1455	1.462	0.528	1.990	1.962	17.8	-1.8	20.7
14.51	14.57	297	100	-0.03	0.1457	1.461	0.525	1.986	1.961	17.8	-1.8	20.7
14.52	14.58	297	100	-0.03	0.1458	1.461	0.525	1.986	1.961	17.8	-1.8	20.7
14.54	14.60	297	100	-0.03	0.1460	1.461	0.525	1.986	1.961	17.8	-1.8	20.7
14.57	14.62	297	100	-0.03	0.1462	1.460	0.525	1.965	1.960	17.8	-1.8	20.7
14.59	14.65	298	100	-0.03	0.1465	1.465	0.525	1.990	1.965	17.8	-1.8	20.7
14.60	14.66	298	100	-0.03	0.1466	1.465	0.525	1.990	1.965	17.8	-1.8	20.7
14.62	14.67	298	100	-0.03	0.1467	1.469	0.525	1.990	1.969	17.8	-1.8	20.7
14.65	14.70	299	100	-0.03	0.1470	1.469	0.525	1.994	1.969	17.8	-1.8	20.8
14.67	14.72	299	100	-0.03	0.1472	1.468	0.525	1.994	1.968	17.8	-1.8	20.8
14.68	34.74	299	100	-0.03	0.1474	1.468	0.525	1.993	1.968	17.8	-1.8	20.8
14.72	14.78	300	100	-0.02	0.1478	1.473	0.522	1.995	1.973	17.8	-1.8	20.8
14.73	14.79	300	100	-0.03	0.1479	1.472	0.525	1.997	1.972	17.8	-1.8	20.8
14.75	14.80	300	100	-0.03	0.1480	1.472	0.525	1.997	1.972	17.8	-1.8	20.8
14.70	34.62	301	100	-0.03	0.1484	1.476	0.525	2.002	1.977	17.8	-1.8	20.6
14.80	14.85	301	100	-0.02	0.1485	1.476	0.522	1.998	1.976	17.8	-1.8	20.8
14.82	14.88	300	100	-0.02	0.1488	1.471	0.522	1.993	1.971	17.8	-1.8	20.8
14.85	14.89	301	100	-0.02	0.1489	1.475	0.522	2,000	1.975	17.8	-1.8	20.8
14.87	14.93	301	100	-0.03	0.1493	1.475	0.525	2.000	1.975	17.8	-1.8	20.8
14.88	14.94	301	100	-0.03	0.1494	1.475	0.525	2.000	1.975	17.8	-1.8	20.8
14.91	14.96	300	100	-0.03	0.1496	1.469	0.525	1.994	1.969	17.8	-1.8	20.8
14.92	15.00	300	100	-0.03	0.1500	1.469	0.525	1.994	1.969	17.8	-1.8	20.8
14.96	15.01	299	100	-0.03	0.1501	1.464	0.525	1.989	1.964	17.8	-1.8	20.8
14.97	15.03	299	100	-0.03	0.1508	1.463	0.525	1.988	1.963	17.8	-1.8	20.8
14.98	15.04	299	100	-0.03	0.1504	1.463	0.525	1.988	1.963	17.8	-1.8	20.8
15.02	15.08	298	100	-0.03	0.1508	1.458	0.525	1.983	1.958	17.8	-1.8	20.8
15.03	15.09	297	100	-0.03	0.1509	1.452	0.525	1.978	1.952	17.8	-1.8	20.8
15.05	15.11	297	100	-0.03	0.1511	1.452	0.525	1.977	1.952	17.8	-1.8	20.8
15.08	15.14	297	100	-0.03	0.1514	1.452	0.525	1.977	1.952	17.8	-1.8	20.9
15.10	15.16	296	100	-0.03	0.1516	1.446	0.525	1.972	1.946	17.8	-1.8	20.9
15.11	15.17	296	100	-0.03	0.1517	1.446	0.525	1.971	1.946	17.8	-1.8	20.9
15.15	15.19	295	100	-0.03	0.1519	1.441	0.525	1.971	1.941	17.8	-1.8	20.9
15.16	15.22	295	100	-0.03	0.1522	1.440	0.525	1.966	1.940	17.8	-1.8	20.9
15.18	15.24	295	100	-0.03	0.1524	1.440	0.525	1.965	1.940	17.8	-1.8	20.9
15.19	15.25	299	100	-0.03	0.1525	1,435	0.525	1.960	1.985	17.8	-1.8	20.9
15.22	15.28	298	100	-0.03	0.1528	1.430	0.528	1.958	1.980	17.8	-1.8	20.9
15.24	15.30	298	100	-0.03	0.1530	1.429	0.528	1.957	1.929	17.8	-1.8	20.9
15.26	15.32	298	100	-0.03	0.1532	1.429	0.525	1.954	1.929	17.8	-1.8	20.9
15.29	15.35	298	100	-0.03	0.1535	1.429	0.528	1.957	1.924	17.8	-1.8	20.9
15.31	15.37	292	100	-0.03	0.1537	1.423	0.528	1.951	1.923	17.8	-1.8	20.9
15.33	15.39	292	100	-0.03	0.1539	1.423	0.528	1.951	1.923	17.8	-1.8	20.9
15.35	15.41	291	100	-0.03	0.1541	1.418	0.528	1.946	1.918	17.8	-1.8	20.9
15.38	15.44	291	100	-0.03	0.1544	1.417	0.528	1.945	1.917	17.8	-1.8	20.9
15.39	15.45	291	100	-0.03	0.1545	1.417	0.525	1.942	1.917	17.8	-1.8	20.9
15.42	15.47	291	100	-0.03	0.1547	1.417	0.528	1.945	1.917	17.8	-1.8	20.9
15.43	15,49	291	100	-0.03	0.1549	1.417	0.528	1.944	1.917	17.8	-1.8	20.9

Deformació n (mm)	Deform. Unitaria N	Celda Carga N	Presión de poros (kPa)	Incremento deporos (kgf/cm²)	Deform. Unitaria	Eafuerzo Desviador (kgf/cm²)	s'3 Efectivo	s'1 Efectivo	s1 Total	Lectura bureta (cm <sup>3</sup> )	Cambio volumen (cm <sup>1</sup> )	Area corregida
			100	0.02	0.000		(ign/cm)	(kgr/cm)	(up/cm)			20.0
15.45	15.51	291	100	-0.03	0.1551	1.416	0.525	1.941	1.916	17.8	-1.8	20.9
15.47	10.02	231	100	-0.03	0.1554	1.410	0.528	1.044	1.910	17.0	-1.0	21.0
15.50	15.59	291	100	-0.03	0.1556	1,410	0.528	1.945	1 920	17.8	-1.0	21.0
15.52	15.58	292	100	-0.03	0.1558	1.420	0.525	1.945	1,920	17.8	-1.8	21.0
15.53	15.59	292	100	-0.03	0.1559	1.420	0.525	1.945	1.920	17.8	-1.8	21.0
15.55	15.61	291	100	-0.03	0.1561	1.414	0.528	1.942	1.914	17.8	-1.8	21.0
15.57	15.63	292	100	-0.03	0.1563	1.419	0.528	1.947	1.919	17.8	-1.8	21.0
15.58	15.64	291	100	-0.03	0.1564	1.414	0.525	1.939	1.914	17.8	-1.8	21.0
15.60	15.66	291	100	-0.03	0.1566	1.414	0.525	1.939	1.914	17.8	-1.8	21.0
15.61	15.67	291	100	-0.03	0.1567	1.413	0.525	1.939	1.913	17.8	-1.8	21.0
15.63	15.69	291	100	-0.03	0.1569	1.413	0.525	1.938	1.913	17.8	-1.8	21.0
15.65	15.71	231	100	-0.03	0.1571	1.413	0.525	1.930	1.913	17.0	-1.0	21.0
15.67	15.73	201	100	-0.03	0.1575	1.413	0.525	1.930	1.013	17.8	-1.0	21.0
15,70	15.76	291	100	-0.03	0.1576	1.412	0.525	1.937	1.912	17.8	-1.8	21.0
15.71	15.77	291	100	-0.03	0.1577	1.412	0.525	1.937	1.912	17.8	-1.8	21.0
15.73	15.79	291	100	-0.03	0.1579	1.411	0.525	1.937	1.911	17.8	-1.8	21.0
15.75	15.81	291	100	-0.03	0.1581	1.411	0.525	1.936	1.911	17.8	-1.8	21.0
15.77	15.83	291	100	-0.03	0.1583	1.411	0.525	1.936	1.911	17.8	-1.8	21.0
15.78	15.84	291	100	-0.03	0.1584	1.411	0.525	1.936	1.911	17.8	-1.8	21.0
15.80	15.86	291	100	-0.03	0.1586	1.410	0.525	1.935	1.910	17.8	-1.8	21.0
15.82	15.88	291	100	-0.03	0.1588	1.410	0.525	1.935	1,910	17.8	-1.8	21.0
15.65	15.00	231	100	-0.03	0.1509	1.410	0.525	1,995	1.910	17.0	-1.0	21.0
15.87	15.91	291	100	-0.02	0.1593	1.400	0.522	1.952	1 909	17.8	-1.0	21.0
15.88	15.94	291	100	-0.03	0.1594	1.409	0.525	1.934	1,909	17.8	-1.8	21.1
15.90	15.96	291	100	-0.03	0.1596	1.409	0.525	1.934	1.909	17.8	-1.8	21.1
15.92	15.98	291	100	-0.03	0.1598	1.408	0.525	1.933	1.908	17.8	-1.8	21.1
15.94	16.00	292	100	-0.02	0.1600	1.413	0.522	1.935	1.913	17.8	-1.8	21.1
15.95	16.02	292	100	-0.03	0.1602	1.413	0.525	1.938	1.913	17.8	-1.8	21.1
15.97	16.03	292	100	-0.03	0.1603	1.412	0.525	1.937	1.912	17.8	-1.8	21.1
15.99	16.05	292	100	-0.02	0.1605	1.412	0.522	1.934	1.912	17.8	-1.8	21.1
16.00	16.07	292	100	-0.02	0.1607	1.411	0.522	1.933	1.911	17.9	-1.9	21.1
16.04	35.06	232	100	-0.02	0.1610	1.411	0.522	1,000	1.000	17.0	-1.9	24.4
16.05	16.12	291	100	-0.02	0.1612	1.400	0.522	1.928	1.900	17.9	-1.9	21.1
16.07	16.13	292	100	-0.02	0.1613	1.410	0.522	1.932	1,910	17.9	-1.9	21.1
16.09	16.15	291	100	-0.02	0.1615	1.405	0.522	1.927	1.905	17.9	-1.9	21.1
16.10	16.17	292	100	-0.02	0.1617	1.409	0.522	1.932	1.909	17.9	-1.9	21.1
16.12	16.18	291	100	-0.02	0.1618	1.404	0.522	1.927	1.904	17.9	-1.9	21.1
16.13	16.20	291	100	-0.02	0.1620	1.404	0.522	1.926	1.904	17.9	-1.9	21.1
16.15	16.21	291	100	-0.02	0.1621	1.404	0.522	1.926	1.904	17.9	-1.9	21.1
16.17	16.23	291	100	-0.03	0.1623	1.403	0.525	1.929	1.903	17.9	-1.9	21.1
16.18	16.25	291	100	-0.02	0.1625	1.403	0.522	1.925	1.905	17.9	-1.9	21.1
16.20	30.20	201	100	-0.03	0.1620	1.400	0.525	1.020	1.000	17.9	-1.9	24.4
16.21	16.20	291	100	-0.03	0.1629	1.403	0.525	1.920	1.903	17.9	-1.9	21.1
16.25	16.31	291	100	-0.02	0.1631	1,402	0.522	1.924	1,902	17.9	-1.9	21.2
16.26	16.33	292	100	-0.03	0.1633	1.407	0.525	1.932	1.907	17.9	-1.9	21.2
16.28	16.34	292	100	-0.02	0.1634	1.407	0.522	1.929	1.907	17.9	-1.9	21.2
16.29	16.35	292	100	-0.02	0.1635	1.406	0.522	1.929	1.906	17.9	-1.9	21.2
16.31	16.38	292	100	-0.03	0.1638	1.406	0.525	1.981	1.906	17.9	-1.9	21.2
16.33	16.39	292	100	-0.03	0.1639	1.406	0.525	1.931	1.906	17.9	-1.9	21.2
16.34	16.40	298	100	-0.02	0.1640	1.410	0.522	1.988	1.910	17.9	-1.9	21.2
16.36	16.42	298	100	-0.03	0.1642	1.410	0.525	1.935	1.910	17.9	-1.9	21.2
				the second sector	Etapa de	falla segundo i	ncremento	-14		Lochers	Carth	
Deformació	Deform.	Celda	Presión de	dependent	Deform.	Desideder	33	s1	al Total	burnete	Cambio	Area
n (mm)	en cana	Carga N	poros (kPa)	deporte	Unitaria	Desvision	(hed/ow2)	(had (m <sup>2</sup> )	(had (and )	L A	to h	corregida
0.00	0.00		102	(un/cm)	0.0000	(kgr/cm)	(Ng)/cm )	1 (000	(kg)/cm )	(cm )	(cm)	17.05
0.00	0.00	28	105	0.00	0.0000	0.000	0.983	1,140	1 150	17.4	0.0	17.95
0.04	0.04	44	106	0.03	0.0004	0.250	0.967	1,216	1,250	17.4	0.0	17.96
0.07	0.07	52	108	0.05	0.0007	0.295	0.953	1.248	1,295	17.4	0.0	17.96
0.09	0.09	59	109	0.06	0.0009	0.335	0.939	1,273	1,335	17.4	0.0	17.97
0.12	0.12	64	110	0.07	0.0012	0.363	0.928	1.291	1.963	17.4	0.0	17.97
0.14	0.15	71	111	0.08	0.0015	0.403	0.916	1.319	1.403	17.4	0.0	17.98
0.17	0.17	76	112	0.09	0.0017	0.431	0.905	1.336	1.431	17.4	0.0	17.98
0.20	0.20	82	113	0.11	0.0020	0.465	0.894	1.359	1.465	17.4	0.0	17.99

Deformació n (mm)	Deform. Unitaria	Celda Carga N	Presión de poros (kPa)	Incremento deporos	Deform. Unitaria	Esfuerzo Desviador	s'3 Efectivo	s'1 Efectivo	s1 Total	Lectura bureta	Cambio volumen	Area corregida
	~			(sp/cm)		(states)	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(cm)	(cm )	
0.23	0.23	88	114	0.11	0.0023	0.499	0.889	1.387	1.499	17.4	0.0	17.99
0.25	0.25	93	115	0.12	0.0025	0.527	0.880	1.407	1.527	17.4	0.0	17.99
0.28	0.28	99	116	0.13	0.0028	0.561	0.872	1.432	1.561	17.4	0.0	18.00
0.31	0.31	110	115	0.14	0.0034	0.595	0.858	1,459	1.623	17.2	0.2	17.99
0.36	0.36	115	118	0.15	0.0036	0.651	0.852	1.504	1.651	17.2	0.2	17.99
0.39	0.39	121	118	0.15	0.0039	0.685	0.847	1.532	1.685	17.2	0.2	18.00
0.41	0.41	126	119	0.16	0.0041	0.713	0.841	1.555	1.713	17.2	0.2	18.00
0.44	0.44	132	119	0.16	0.0044	0.747	0.838	1.586	1.747	17.2	0.2	18.01
0.47	0.47	147	119	0.16	0.0047	0.775	0.836	1.611	1.808	17.2	0.2	18.01
0.52	0.52	146	120	0.17	0.0052	0.827	0.827	1.654	1.827	17.0	0.4	18.00
0.55	0.55	151	120	0.18	0.0055	0.855	0.824	1.679	1.855	17.0	0.4	18.01
0.58	0.58	155	121	0.18	0.0058	0.877	0.822	1.699	1.877	17.0	0.4	18.01
0.60	0.61	159	121	0.18	0.0061	0.899	0.819	1.718	1.899	17.0	0.4	18.02
0.63	0.63	163	121	0.18	0.0063	0.922	0.816	1.738	1.922	17.0	0.4	18.02
0.68	0.68	171	121	0.19	0.0068	0.967	0.815	1,780	1.967	17.0	0.4	18.03
0.70	0.70	176	122	0.19	0.0070	0.995	0.813	1.808	1.995	17.0	0.4	18.04
0.73	0.73	180	122	0.19	0.0073	1.017	0.810	1.828	2.017	17.0	0.4	18.04
0.75	0.75	184	122	0.19	0.0075	1.089	0.810	1.850	2.039	17.0	0.4	18.05
0.78	0.78	188	122	0.19	0.0078	1.062	0.810	1.872	2.062	17.0	0.4	18.05
0.80	0.81	192	122	0.19	0.0081	1.084	0.808	1.892	2.084	17.0	0.4	18.06
0.85	0.85	200	122	0.19	0.0086	1,120	0.808	1.934	2.106	17.0	0.4	18.07
0.88	0.88	204	122	0.20	0.0068	1.151	0.805	1.956	2.151	17.0	0.4	18.07
0.91	0.91	208	122	0.20	0.0091	1.173	0.805	1.978	2.173	17.0	0.4	18.07
0.98	0.94	212	122	0.20	0.0094	1.195	0.805	2.000	2.195	17.0	0.4	18.08
0.96	0.96	215	122	0.20	0.0096	1.212	0.805	2.017	2.212	17.0	0.4	18.08
0.98	0.98	219	122	0.20	0.0098	1.234	0.805	2.039	2.234	17.0	0.4	18.09
1.01	1.02	222	122	0.20	0.0102	1,226	0.805	2.059	2.229	16.5	0.9	18.05
1.06	1.07	230	123	0.20	0.0107	1.299	0.802	2.101	2.299	16.5	0.9	18.05
1.09	1.09	233	122	0.20	0.0109	1.315	0.805	2.120	2.315	16.5	0.9	18.06
1.11	1.12	237	123	0.20	0.0112	1.338	0.802	2.140	2.338	16.5	0.9	18.06
1.14	1.14	240	123	0.20	0.0114	1.354	0.802	2.156	2.354	16.5	0.9	18.07
1.16	1.17	244	123	0.20	0.0117	1.376	0.802	2.178	2.376	16.5	0.9	18.07
1.22	1.23	251	123	0.20	0.0123	1.415	0.802	2.201	2.415	16.5	0.9	18.08
1.24	1.25	254	123	0.20	0.0125	1.432	0.802	2.234	2.432	16.5	0.9	18.09
1.28	1.29	258	123	0.20	0.0129	1.454	0.802	2.256	2.454	16.5	0.9	18.09
1.30	1.31	262	122	0.20	0.0131	1.476	0.805	2.281	2.476	16.5	0.9	18.10
1.33	1.34	265	122	0.20	0.0134	1.492	0.805	2.297	2.492	16.5	0.9	18.10
1.35	1.35	209	122	0.20	0.0136	1.534	0.805	2.319	2.514	16.5	0.9	18.11
1.40	1.41	275	122	0.20	0.0141	1.547	0.805	2.352	2.547	16.5	0.9	18.12
1.43	1.44	279	122	0.19	0.0144	1.569	0.808	2.377	2.569	16.5	0.9	18.12
1.46	1.47	283	122	0.19	0.0147	1.591	0.808	2.399	2.591	16.5	0.9	18.13
1.48	1.49	286	122	0.19	0.0149	1.608	0.808	2.416	2.608	16.5	0.9	18.13
1.50	1.51	290	122	0.19	0.0151	1.634	0.810	2,444	2.634	16.1	1.3	18.09
1.50	1.59	290	122	0.19	0.0157	1,672	0.810	2,401	2,623	16.1	1.3	18.10
1.50	1.60	300	122	0.19	0.0160	1.689	0.813	2.502	2.689	16.1	1.3	18.11
1.62	1.63	304	122	0.19	0.0163	1.711	0.813	2.524	2.711	16.1	1.3	18.12
1.65	1.66	308	121	0.18	0.0166	1.733	0.816	2.549	2.733	16.1	1.3	18.12
1.67	1.69	312	121	0.18	0.0169	1.755	0.816	2.571	2.755	16.1	1.3	18.13
1.70	1.71	315	121	0.18	0.0171	1.771	0.816	2.587	2.771	16.1	1.3	18.13
1.72	1.74	318	121	0.18	0.0177	1.809	0.819	2.606	2.809	16.1	1.3	18.14
1.77	1.79	326	121	0.18	0.0179	1.831	0.822	2.653	2.831	16.1	1.3	18.15
1.80	1.82	329	121	0.18	0.0182	1.848	0.822	2.669	2.848	16.1	1.3	18.15
1.84	1.85	333	120	0.18	0.0185	1.869	0.824	2.694	2.869	16.1	1.3	18.16
1.86	1.87	337	120	0.18	0.0187	1.892	0.824	2.716	2.892	16.1	1.3	18.16
1.89	1.90	340	120	0.17	0.0190	1.908	0.827	2,735	2,908	16.1	1.3	18.17
1.92	1.95	347	120	0.17	0.0195	1.950	0.827	2.757	2.996	16.1	13	18.17
1.97	1.98	350	120	0.17	0.0198	1.962	0.830	2.792	2.962	16.1	1.3	18.18
2.00	2.01	354	120	0.17	0.0201	1.987	0.830	2.817	2.987	15.8	1.6	18.16
2.08	2.04	357	120	0.17	0.0204	2.004	0.830	2.834	3.004	15.8	1.6	18.16

Deformació	Deform. Unitaria	Celda	Presión de	Incremento deporos	Deform.	Esfuerzo Desviador	s'3 Efectivo	s'1 Efectivo	s1 Total	Lectura bureta	Gambio volumen	Area
u (unut)	×	Carga N	porce (ione)	(kgf/cm²)	Unicaria	(kgf/cm <sup>2</sup> )	(kgt/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(cm³)	(cm <sup>3</sup> )	corregida
2.05	2.07	361	120	0.17	0.0207	2.026	0.833	2.858	3.026	15.8	1.6	18.17
2.08	2.10	364	120	0.17	0.0210	2.042	0.833	2.875	3.042	15.8	1.6	18.17
2.10	2.11	367	119	0.16	0.0211	2.058	0.836	2.894	3.058	15.8	1.6	18.18
2.13	2.15	370	119	0.16	0.0215	2.074	0.836	2.910	3.074	15.8	1.6	18.18
2.16	2.18	373	119	0.16	0.0218	2.091	0.838	2.929	3.091	15.8	1.6	18.19
2.19	2.21	377	119	0.16	0.0221	2.112	0.838	2.951	3.112	15.8	1.6	18.19
2.21	2.23	380	119	0.16	0.0223	2.129	0.841	2.970	3.129	15.8	1.6	18.20
2.29	2.20	363	119	0.16	0.0225	2.145	0.841	2.966	3.145	15.8	1.6	18.20
2.27	2.29	380	119	0.16	0.0229	2.101	0.841	3.002	3.151	15.8	1.6	18.21
2.32	2.34	392	118	0.16	0.0234	2,198	0.844	3.037	3,193	15.8	1.6	18.22
2.35	2.37	395	118	0.16	0.0237	2.210	0.844	3.053	3.210	15.8	1.6	18.22
2.37	2.39	398	118	0.15	0.0239	2.226	0.847	3.073	3.226	15.8	1.6	18,23
2.40	2.42	401	118	0.15	0.0242	2.242	0.847	3.089	3.242	15.8	1.6	18.23
2.43	2.45	404	118	0.15	0.0245	2.258	0.850	3.108	3.258	15.8	1.6	18.24
2.45	2.47	407	118	0.15	0.0247	2.274	0.850	3.124	3.274	15.8	1.6	18.24
2.48	2.50	410	118	0.15	0.0250	2.290	0.852	3.143	3.290	15.8	1.6	18.25
2.51	2.53	413	118	0.15	0.0253	2.310	0.852	3.163	3.310	15.5	1.9	18.22
2.54	2.35	410	118	0.15	0.0255	2.325	0.852	3.179	3.325	15.5	1.9	18.23
2.56	2.56	419	117	0.14	0.0258	2,343	0.855	3.196	3.343	15.5	1.9	18.23
2.55	2.63	424	117	0.14	0.0263	2.355	0.858	3,227	3,303	15.5	1.9	18.24
2.63	2.65	426	117	0.14	0.0265	2,380	0.861	3.241	3,380	15.5	1.9	18.25
2.67	2.69	429	117	0.14	0.0269	2.396	0.861	3.256	3.396	15.5	1.9	18.25
2.69	2.71	432	116	0.14	0.0271	2.412	0.863	3.275	3.412	15.5	1.9	18.26
2.71	2.73	433	116	0.14	0.0273	2.417	0.863	3.280	3.417	15.5	1.9	18.26
2.74	2.76	436	116	0.13	0.0276	2.433	0.866	3.299	3.433	15.5	1.9	18.27
2.76	2.78	438	116	0.13	0.0278	2.444	0.866	3.310	3.444	15.5	1.9	18.27
2.79	2.81	441	116	0.13	0.0281	2.460	0.869	3.329	3.460	15.5	1.9	18.28
2.81	2.83	443	116	0.13	0.0283	2.470	0.869	3.339	3.470	15.5	1.9	18.28
2.89	2.86	445	116	0.13	0.0286	2.461	0.872	3.352	3.481	15.5	1.9	18,29
2.80	2.00	451	115	0.13	0.0291	2.513	0.875	3.371	3.513	15.5	1.9	18.30
2.91	2.93	452	115	0.13	0.0293	2,518	0.875	3,392	3.518	15.5	1.9	18.30
2.94	2.96	455	115	0.12	0.0296	2.534	0.877	3,411	3.534	15.5	1.9	18.31
2.97	2.99	457	115	0.12	0.0299	2.544	0.877	3,421	3.544	15.5	1.9	18.31
2.99	3.01	459	115	0.12	0.0301	2.555	0.880	3,435	3,555	15.5	1.9	18.32
3.02	3.04	462	115	0.12	0.0304	2.572	0.880	3.452	3.572	15.4	2.0	18.31
3.05	3.07	463	115	0.12	0.0307	2.577	0.883	3.460	3.577	15.4	2.0	18.32
3.07	3.09	465	115	0.12	0.0309	2.587	0.883	3,470	3.587	15.4	2.0	18.32
3.09	3.11	468	114	0.11	0.0311	2.603	0.886	3,489	3.603	15.4	2.0	18.32
3.12	3.14	409	114	0.11	0.0314	2.608	0.885	3,499	3.608	15.4	2.0	18.33
3.14	3.10	471	114	0.11	0.0318	2,619	0.891	3,507	3,629	15.4	2.0	18.33
3.19	3.21	475	114	0.11	0.0921	2.640	0.891	3,531	3,640	15.4	2.0	18.34
3.22	3.24	478	114	0.11	0.0324	2.685	0.891	3.547	3.685	15,4	2.0	18.35
3.24	3.26	480	113	0.11	0.0326	2.666	0.894	3,560	3.666	15.4	2.0	18.35
3.27	3.29	482	113	0.11	0.0329	2.676	0.894	3.570	3.676	15.4	2.0	18.36
3.29	3.31	484	113	0.10	0.0331	2.687	0.897	3.584	3.687	15.4	2.0	18.36
3.32	3.34	485	113	0.10	0.0334	2.691	0.897	3.588	3.691	15.4	2.0	18.37
3.35	3.37	488	113	0.10	0.0837	2.707	0.897	3.604	3.707	15.4	2.0	18.37
3.37	3.39	489	113	0.10	0.0339	2.712	0.900	3.612	3.712	15.4	2.0	18,38
3.39	3.42	491	113	0.10	0.0942	2.723	0.900	3.622	3.723	15.4	2.0	18.38
3.42	3.44	493	113	0.10	0.0344	2,733	0.900	3.633	3.733	15.4	2.0	18,39
3.46	3.49	496	113	0.10	0.0949	2.348	0.902	3,651	3.743	15.4	2.0	18.40
3.40	3.52	499	112	0.00	0.0952	2,364	0.905	3,669	3,754	15.4	20	18.40
3.51	3.54	500	112	0.09	0.0954	2,769	0.905	3,674	3,769	15.4	2.0	18.41
3.54	3.57	502	112	0.09	0.0357	2,779	0.905	3.685	3.779	15.4	2.0	18.41
3.56	3.59	503	112	0.09	0.0359	2,784	0.908	3.692	3.784	15.4	2.0	18.42
3.59	3.62	506	112	0.09	0.0362	2.800	0.908	3.708	3.800	15.4	2.0	18.42
3.61	3.64	507	112	0.09	0.0364	2.805	0.911	3.716	3.805	15.4	2.0	18.43
3.64	3.67	508	112	0.09	0.0367	2.810	0.911	3.720	3.810	15.4	2.0	18.43
3.66	3.69	510	112	0.09	0.0369	2.820	0.911	3.731	3.820	15.4	2.0	18.44
3.69	3.71	512	111	0.09	0.0371	2.830	0.914	3.744	3.830	15.4	2.0	18.44
3.71	3.74	513	111	0.08	0.0374	2.635	0.916	3.751	3.835	15.4	2.0	18.45
3.74	3.76	515	111	0.06	0.0076	2.045	0.915	3.762	3.015	15.4	2.0	16.45
3.76	3.79	517	111	0.08	0.0951	2,656	0.915	3.772	3,656	15.4	2.0	18,46
3.79	3.01	210	111	0.06	010001	2.000	0.313	3.780	3.000	134	2.0	10.40

Deformació	Deform. Unitaria	Celda	Presión de	Incremento deporos	Deform.	Esfuerzo Desviador	s'3 Efectivo	s'1 Efectivo	s1 Total	Lectura bureta	Cambio volumen	Area
n (mm)	*	Carga N	poros (kPa)	(kgl/cm <sup>2</sup> )	Unitaria	(kgf/cm <sup>2</sup> )	(kut/cm <sup>2</sup> )	(hat/cm <sup>2</sup> )	(kat less2)	(cm³)	(cm <sup>3</sup> )	corregida
8.81	9.84	6.21	111	0.08	0.0384	2,876	0.010	3 206	9,926	15.4	2.0	18.46
3.84	3.86	522	111	0.08	0.0386	2.881	0.922	3,803	3.881	15.4	2.0	18.47
3.86	3.89	524	111	0.08	0.0389	2,891	0.922	3,813	3,891	15.4	2.0	18.48
3.89	3.92	526	110	0.08	0.0392	2.902	0.925	3.826	3.902	15.4	2.0	18,48
3.92	3.94	527	110	0.08	0.0394	2.906	0.925	3.831	3.906	15.4	2.0	18.49
3.94	3.97	530	110	0.08	0.0397	2.922	0.925	3.847	3.922	15.4	2.0	18.49
3.96	3.99	530	110	0.07	0.0399	2.921	0.928	3.849	3.921	15.4	2.0	18,49
3.99	4.02	532	110	0.07	0.0402	2.982	0.930	3.862	3.932	15.4	2.0	18.50
4.02	4.05	534	110	0.07	0.0405	2.942	0.930	3.872	3.942	15.4	2.0	18.50
4.04	4.07	535	110	0.07	0.0407	2.946	0.933	3.880	3.945	15.4	2.0	18.51
4.09	4.12	537	109	0.06	0.0412	2.967	0.956	3.000	3.967	15.4	2.0	18.51
4.12	4.15	540	109	0.06	0.0415	2.972	0.939	3,910	3.972	15.4	2.0	18.52
4.14	4.17	541	109	0.06	0.0417	2.976	0.939	3,915	3,976	15.4	2.0	18.53
4.17	4.20	543	109	0.06	0.0420	2,986	0.941	3,928	3,986	15.4	2.0	18.53
4.20	4.23	546	109	0.06	0.0423	3.002	0.941	3.943	4.002	15.4	2.0	18.54
4.22	4.25	549	109	0.06	0.0425	3.018	0.941	3.959	4.018	15.4	2.0	18.55
4.25	4.28	551	108	0.06	0.0428	3.028	0.944	3.972	4.028	15.4	2.0	18.55
4.27	4.31	553	108	0.06	0.0431	3.088	0.944	3.982	4.038	15.4	2.0	18.56
4.30	4.33	555	108	0.05	0.0433	3.048	0.947	3.995	4.048	15.4	2.0	18.56
4.33	4.36	558	108	0.05	0.0436	3.064	0.947	4.011	4.064	15.4	2.0	18.57
4.36	4.39	560	108	0.05	0.0439	3.074	0.947	4.021	4.074	15.4	2.0	18.57
4.38	4.41	561	108	0.05	0.0441	3.078	0.950	4.028	4.078	15.4	2.0	18.58
4.41	4,44	563	108	0.05	0.0444	3.068	0.953	4.041	4.065	15.4	2.0	18.58
4,44	4.47	565	108	0.05	0.0447	3.098	0.953	4.051	4.098	15.4	2.0	18.59
4,40	4,49	500	105	0.05	0.0449	3.205	0.955	4,036	4.103	15.4	2.0	18.59
4.52	4.52	500	107	0.04	0.0455	3,123	0.955	4.079	4.123	15.4	2.0	18.60
4.55	4.58	572	107	0.04	0.0458	3,133	0.958	4.091	4.133	15.4	2.0	18.61
4.58	4.61	575	107	0.04	0.0461	3.149	0.958	4.107	4.149	15.4	2.0	18.62
4.60	4.64	576	107	0.04	0.0464	3.153	0.958	4.111	4.153	15.4	2.0	18.62
4.63	4.67	578	107	0.04	0.0467	3.163	0.961	4.124	4.163	15.4	2.0	18.63
4.65	4.69	580	107	0.04	0.0469	3.173	0.961	4.134	4.173	15.4	2.0	18.63
4.69	4.73	582	107	0.04	0.0473	3.183	0.961	4.144	4.183	15.4	2.0	18.64
4.71	4.75	584	106	0.04	0.0475	3.193	0.964	4.157	4.193	15.4	2.0	18.64
4.74	4.78	585	106	0.04	0.0478	3.198	0.964	4.162	4.198	15.4	2.0	18.65
4.76	4.80	586	106	0.03	0.0480	3.203	0.967	4.169	4.203	15.4	2.0	18.65
4.79	4.83	588	106	0.03	0.0483	3.212	0.967	4.179	4.212	15.4	2.0	18.66
4.82	4.85	589	106	0.03	0.0485	3.217	0.967	4.183	4.217	15.4	2.0	18.66
4.65	4.65	591	106	0.03	0.0488	3.227	0.969	4.195	4.227	15.4	2.0	18.67
4.88	4.91	592	106	0.03	0.0491	3.231	0.969	4.201	4.231	15.4	2.0	18.68
4.00	4.06	500	106	0.03	0.0496	3.230	0.969	4,200	4.230	15.4	2.0	18.60
4.96	4.99	500	106	0.03	0.0499	3,250	0.972	4.223	4,250	15.4	2.0	18.69
4.99	5.02	598	106	0.03	0.0502	3,260	0.972	4,232	4,260	15.4	2.0	18,70
5.01	5.05	600	106	0.03	0.0505	3.270	0.972	4.242	4.270	15.4	2.0	18,70
5.04	5.07	601	105	0.03	0.0507	3.275	0.975	4.250	4.275	15.4	2.0	18,71
5.06	5.10	602	105	0.03	0.0510	3.279	0.975	4.254	4.279	15.4	2.0	18.71
5.09	5.13	603	105	0.03	0.0513	3.284	0.975	4.259	4.284	15.4	2.0	18.72
5.12	5.16	605	105	0.02	0.0516	3.294	0.978	4.271	4.294	15.4	2.0	18.72
5.14	5.18	607	105	0.02	0.0518	3.304	0.978	4.281	4.304	15.4	2.0	18.73
5.17	5.21	608	105	0.02	0.0521	3.308	0.980	4.289	4.308	15.4	2.0	18.73
5.19	5.23	610	105	0.02	0.0523	3.318	0.980	4.299	4.318	15.4	2.0	18.74
5.22	5.26	611	105	0.02	0.0525	3.323	0.980	4.303	4.323	15.4	2.0	18.74
5.25	5.29	612	105	0.02	0.0529	3.327	0.963	4.310	4.327	15.4	2.0	18.75
5.27	5.32	614	104	0.02	0.0531	3,337	0.963	4,999	4,337	15.4	2.0	10.75
5.30	5.34	616	104	0.01	0.0537	3.330	0.966	4.322	4.330	15.4	2.0	18.75
5.36	5.40	617	104	0.01	0.0540	3,950	0.986	4,332	4,350	15.4	2.0	18.77
5.38	5.42	618	104	0.01	0.0542	3,955	0.989	4,344	4,355	15.4	2.0	18.78
5.41	5.45	619	104	0.01	0.0545	3,359	0.989	4.348	4,359	15.4	2.0	18,78
5.43	5.47	620	104	0.01	0.0547	3.364	0.992	4.356	4.364	15.4	2.0	18,79
5.46	5.50	621	104	0.01	0.0550	3.368	0.992	4.360	4.368	15.4	2.0	18,79
5.48	5.52	622	104	0.01	0.0552	3.373	0.992	4.365	4.373	15.4	2.0	18.80
5.51	5.55	623	104	0.01	0.0555	3.378	0.992	4.369	4.378	15.4	2.0	18.80
5.53	5.57	624	103	0.01	0.0557	3.382	0.994	4.377	4.382	15.4	2.0	18.81
5.56	5.60	625	103	0.01	0.0560	3.387	0.994	4.381	4.387	15.4	2.0	18.81
5.58	5.62	625	103	0.00	0.0562	3.386	0.997	4.383	4.386	15.4	2.0	18.82
5.61	5.65	626	103	0.00	0.0565	3.390	0.997	4.387	4.390	15.4	2.0	18.82

							13	51	s1			
Deformació	Deform. Unitaria	Celda	Presión de	Incremento deporos	Deform.	Esfuerzo Desviador	Efectivo	Efectivo	Total	Lectura bureta	Volumen	Area
n (mm)	*	Carga N	poros (kPa)	(kgf/cm <sup>2</sup> )	Unitaria	(kgf/cm <sup>2</sup> )	Dest (mail)	Dest (mail)	and and	(cm³)	(cm <sup>3</sup> )	corregida
5.42	5.67	677	102	0.00	0.0547	0.005	(Marken )	(kgr/cm)	(agr/cm )	18.4	2.0	10.00
5.66	5.70	628	105	0.00	0.0520	3,399	1,000	4,392	4,305	15.4	2.0	18.83
5.69	5.73	629	103	0.00	0.0573	3.403	1.000	4,403	4.403	15.4	2.0	18.84
5.71	5.75	630	103	0.00	0.0575	3.408	1.000	4.408	4.408	15.4	2.0	18.84
5.74	5.78	631	103	0.00	0.0578	3.412	1.000	4.412	4.412	15.4	2.0	18.85
5.77	5.81	632	103	0.00	0.0581	3.417	1.003	4.420	4.417	15.4	2.0	18.85
5.80	5.87	632	105	0.00	0.0587	3,410	1.005	4,418	4.410	15.4	2.0	18.80
5.85	5.89	634	102	-0.01	0.0589	3.425	1.006	4,430	4.425	15.4	2.0	18.87
5.88	5.92	635	102	-0.01	0.0592	3.429	1.006	4,435	4.429	15.4	2.0	18.88
5.90	5.95	636	102	-0.01	0.0595	3.433	1.006	4,439	4.433	15.4	2.0	18.88
5.93	5.97	636	102	-0.01	0.0597	3.432	1.006	4.438	4.432	15.4	2.0	18.89
5.96	6.00	637	102	-0.01	0.0600	3.437	1.008	4,445	4.437	15.4	2.0	18.89
5.98	6.05	638	102	-0.01	0.0505	3.441	1.008	4,450	4.441	15.4	2.0	18.90
6.03	6.08	639	102	-0.01	0.0608	3.445	1.006	4,453	4.445	15.4	2.0	18.91
6.06	6.10	640	102	-0.01	0.0610	3.449	1.011	4,460	4.449	15.4	2.0	18.91
6.08	6.13	641	102	-0.01	0.0613	3.454	1.011	4.465	4.454	15.4	2.0	18.92
6.11	6.15	642	102	-0.01	0.0615	3.458	1.011	4.469	4.458	15.4	2.0	18.92
6.14	6.19	642	102	-0.01	0.0619	3.457	1.011	4.468	4.457	15.4	2.0	18.93
6.15	6.21	643	101	-0.01	0.0621	3,461	1.014	4,475	4.461	15.4	2.0	18.94
6.22	6.27	644	101	-0.01	0.0627	3.465	1.014	4,479	4.465	15.4	2.0	18.95
6.24	6.29	646	101	-0.02	0.0629	3.475	1.017	4,491	4.475	15.4	2.0	18.95
6.27	6.32	646	101	-0.02	0.0632	3.473	1.017	4,490	4.473	15.4	2.0	18.96
6.30	6.35	647	101	-0.02	0.0635	3.478	1.017	4,494	4.478	15.4	2.0	18.96
6.32	6.37	648	101	-0.02	0.0637	3.482	1.020	4.502	4.482	15.4	2.0	18.97
6.35	6.40	650	101	-0.02	0.0540	3,461	1.020	4.501	4.461	15.4	2.0	18.97
6.40	6.45	650	101	-0.02	0.0545	3,490	1.022	4.512	4,490	15.4	2.0	18.99
6.43	6.48	651	101	-0.02	0.0548	3,494	1.022	4.517	4.494	15.4	2.0	18.99
6.46	6.51	682	101	-0.02	0.0651	3,499	1.022	4.521	4.499	15.4	2.0	19.00
6.48	6.53	682	101	-0.02	0.0053	3.498	1.022	4.520	4.498	15.4	2.0	19.00
6.51	6.56	653	100	-0.03	0.0656	3.500	1.025	4.525	4.500	15.5	1.9	19.02
0.59	6.59	659	100	-0.03	0.0659	3,509	1.025	4.530	4.509	15.5	1.9	19.02
6.59	6.64	656	100	-0.03	0.0564	3,513	1.028	4.537	4.509	15.5	1.9	19.05
6.62	6.66	656	100	-0.03	0.0666	3.512	1.031	4.543	4.512	15.5	1.9	19.04
6.64	6.69	656	100	-0.03	0.0669	3.511	1.081	4.542	4.511	15.5	1.9	19.05
6.67	6.72	658	100	-0.03	0.0672	3.521	1.081	4.551	4.521	15.5	1.9	19.05
6.69	6.74	659	100	-0.03	0.0674	3.525	1.031	4.556	4.525	15.5	1.9	19.06
6.72	6.80	659	100	-0.03	0.0677	3.524	1.051	4,555	4.524	15.5	1.9	19.06
6.77	6.82	661	99	-0.03	0.0682	3.533	1.033	4,566	4.533	15.5	1.9	19.07
6.80	6.85	662	99	-0.03	0.0685	3.537	1.033	4.570	4.537	15.5	1.9	19.08
6.83	6.88	662	99	-0.03	0.0688	3.536	1.033	4.569	4.536	15.5	1.9	19.08
6.86	6.91	663	99	-0.04	0.0691	3.540	1.036	4.576	4.540	15.5	1.9	19.09
6.89	6.94	665	99	-0.04	0.0694	3.550	1.036	4.585	4.550	15.5	1.9	19.10
6.94	6.99	666	20	-0.04	0.0699	3,553	1.036	4,589	4,553	15.5	1.9	19.10
6.97	7.02	667	99	-0.04	0.0702	3.557	1.039	4.596	4.557	15.5	1.9	19.11
7.00	7.05	667	99	-0.04	0.0705	3.554	1.039	4.593	4.554	15.6	1.8	19.13
6.97	7.02	669	99	-0.04	0.0702	3.566	1.036	4.602	4.566	15.6	1.8	19.12
7.05	7.10	669	99	-0.04	0.0710	3.563	1.039	4.602	4.563	15.6	1.8	19.14
7.08	7.15	672	90	-0.04	0.0216	3.507	1.042	4,609	4.507	15.6	1.0	19.15
7.13	7.18	672	20	-0.04	0.0718	3,576	1.042	4,618	4,576	15.6	1.8	19.16
7.15	7.21	673	99	-0.04	0.0721	3.580	1.042	4.622	4.580	15.6	1.8	19.16
7.18	7.23	673	98	-0.04	0.0723	3.579	1.045	4.624	4.579	15.6	1.8	19.17
7.20	7.26	674	99	-0.04	0.0726	3.583	1.042	4.625	4.583	15.6	1.8	19.17
7.23	7.29	675	99	-0.04	0.0729	1.588	1.042	4.629	4.588	15.6	1.8	19.18
7.25	7.32	675	30	-0.04	0.0732	3,585	1,045	4.631	4,505	15.6	1.6	19.19
7.31	7.35	677	26	-0.04	0.0735	3,591	1.045	4,640	4,595	15.6	1.6	19.19
7.34	7.40	677	98	-0.04	0.0740	3,594	1.045	4.639	4.594	15.6	1.8	19.20
7.37	7.43	678	98	-0.04	0.0743	3.598	1.045	4.643	4.598	15.6	1.8	19.21
7.39	7.45	678	98	-0.04	0.0745	3.597	1.045	4.642	4.597	15.6	1.8	19.21
7.42	7.48	678	98	-0.05	0.0748	3.596	1.047	4.644	4.596	15.6	1.8	19.22
7.44	7.50	679	98	-0.05	0.0750	3.601	1.047	4.648	4.601	15.6	1.8	19.22

Deformació	Deform. Unitaria	Celda Cerra N	Presión de	Incremento deporos	Deform.	Esfuerzo Desviador	s'3 Efectivo	s'1 Efectivo	s1 Total	Lectura bureta	Gambio volumen	Area
	*	Cange in	para (ara)	(kgt/cm <sup>2</sup> )	CHICATI	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(cm³)	(cm <sup>3</sup> )	connegation
7.47	7.53	680	98	-0.05	0.0758	3.605	1.047	4.652	4,605	15.6	1.8	19.23
7.50	7.56	680	98	-0.05	0.0756	3.602	1.047	4.649	4.602	15.7	1.7	19.25
7.52	7,58	681	98	-0.05	0.0758	3.606	1.047	4.654	4,606	15.7	1.7	19,25
7.55	7.61	681	98	-0.05	0.0761	3.605	1.050	4.655	4.605	15.7	1.7	19.26
7.58	7.64	682	98	-0.05	0.0764	3.609	1.050	4.659	4,609	15.7	1.7	19.26
7.61	7.66	683	98	-0.05	0.0766	3.613	1.050	4.664	4.613	15.7	1.7	19.27
7.63	7.69	683	98	-0.05	0.0769	3.613	1.053	4.666	4.613	15.7	1.7	19.27
7.66	7.71	684	58	-0.05	0.0771	3.617	1.053	4.670	4.617	15.7	1.7	19.28
7.69	7.74	684	98	-0.05	0.0774	3.616	1.053	4.668	4.616	15.7	1.7	19.28
7.71	7.77	684	98	-0.05	0.0777	3.615	1.053	4.668	4.615	15.7	1.7	19.29
7.74	7.79	685	97	-0.06	0.0779	3.619	1.056	4.675	4.619	15.7	1.7	19.30
7.76	7.82	685	97	-0.06	0.0782	3.618	1.056	4.674	4.618	15.7	1.7	19.30
7.79	7.84	685	97	-0.06	0.0784	3.617	1.059	4.675	4.617	15.7	1.7	19.31
7.81	7.87	685	97	-0.06	0.0787	3.616	1.056	4.672	4.616	15.7	1.7	19.31
7.84	7.90	685	97	-0.06	0.0790	3.615	1.056	4.671	4.615	15.7	1.7	19.32
7.87	7.92	686	97	-0.06	0.0792	3.619	1.059	4.677	4.619	15.7	1.7	19.32
7.89	7.95	686	97	-0.06	0.0795	3.618	1.059	4.677	4.618	15.7	1.7	19.33
7.92	7.97	687	97	-0.06	0.0797	3.622	1.059	4.681	4.622	15.7	1.7	19.33
7.94	8.00	687	97	-0.06	0.0800	3.621	1.059	4,680	4.621	15.7	1.7	19.34
7.97	8.03	687	97	-0.06	0.0803	3.620	1.059	4.679	4.620	15.7	1.7	19.34
7.99	8.05	688	97	-0.06	0.0805	3.624	1.059	4.683	4.624	15.7	1.7	19.35
8.02	8.08	688	97	-0.06	0.0808	3.621	1.061	4.683	4.621	15.8	1.6	19.37
8.05	8.11	688	97	-0.06	0.0811	3.620	1.061	4.682	4.620	15.8	1.6	19.37
8.07	8.13	689	97	-0.06	0.0813	3.625	1.061	4,686	4.625	15.8	1.6	19.38
8.10	8.16	688	97	-0.06	0.0816	3.618	1.061	4.679	4.618	15.8	1.6	19.38
8.12	8.19	688	96	-0.06	0.0819	3.617	1.064	4.681	4.617	15.8	1.6	19.39
8.15	8.21	689	96	-0.06	0.0821	3.621	1.064	4.685	4.621	15.8	1.6	19.39
8.17	8.24	688	96	-0.06	0.0824	3.615	1.064	4.679	4.615	15.8	1.6	19,40
8.20	8.26	688	96	-0.06	0.0826	3.614	1.064	4.678	4.614	15.8	1.6	19.41
8.23	8.29	688	96	-0.06	0.0829	3.613	1.064	4.677	4.613	15.8	1.6	19.41
8.25	8.32	688	96	-0.06	0.0832	3.612	1.064	4.676	4.612	15.8	1.6	19.42
8.28	8.34	689	96	-0.06	0.0834	3.616	1.064	4.680	4.616	15.8	1.6	19.42
8.30	8.37	689	96	-0.07	0.0837	3.615	1.067	4.682	4.615	15.8	1.6	19.43
8.33	8.39	689	96	-0.06	0.0839	3.614	1.064	4.678	4.614	15.8	1.6	19.43
8.36	8.42	689	96	-0.07	0.0842	3.613	1.067	4.680	4.613	15.8	1.6	19.44
8.38	8.45	689	96	-0.07	0.0845	3.612	1.067	4,679	4.612	15.8	1.6	19,44
8.41	8.47	690	96	-0.07	0.0847	3.616	1.067	4.683	4.616	15.8	1.6	19.45
8.43	8.50	689	96	-0.06	0.0850	3.610	1.064	4.674	4.610	15.8	1.6	19.45
8.46	8.52	688	96	-0.06	0.0852	3.604	1.064	4.668	4.604	15.8	1.6	19,46
8.49	8.55	689	96	-0.07	0.0855	3.608	1.067	4.675	4.608	15.8	1.6	19.47
8.52	8.58	688	96	-0.06	0.0858	3.600	1.064	4.664	4.600	15.9	1.5	19.48
8.54	8.60	689	96	-0.07	0.0860	3.604	1.067	4.671	4.604	15.9	1.5	19.49
8.56	8.63	689	96	-0.07	0.0863	3.603	1.067	4.670	4.603	15.9	1.5	19,49
8,59	8.66	689	96	-0.07	0.0866	3.602	1.067	4,669	4.602	15.9	1.5	19.50
8.62	8.68	689	96	-0.07	0.0868	3.601	1.067	4.668	4.601	15.9	1.5	19.51
8.65	8.71	687	96	-0.07	0.0871	3.589	1.067	4.656	4.589	15.9	1.5	19.51
8.67	8.74	688	96	-0.07	0.0874	3.594	1.067	4.660	4.594	15.9	1.5	19.52
8.70	8.76	688	96	-0.07	0.0876	3.592	1.067	4.659	4.592	15.9	1.5	19.52
8.72	8.79	688	96	-0.07	0.0879	3.592	1.067	4.658	4.592	15.9	1.5	19.53
8.75	8.82	688	96	-0.07	0.0882	3.590	1.067	4.657	4.590	15.9	1.5	19.53
8.77	8.84	688	96	-0.07	0.0884	3.590	1.070	4.659	4.590	15.9	1.5	19.54
8.79	8.86	687	96	-0.07	0.0886	3.583	1.070	4.653	4.583	15.9	1.5	19.54
8.82	8.89	688	96	-0.07	0.0889	3.588	1.070	4.657	4.588	15.9	1.5	19.55
8.84	8.91	688	96	-0.07	0.0891	3.587	1.070	4.656	4.587	15.9	1.5	19.55
8.87	8.94	687	96	-0.07	0.0894	3.580	1.070	4.650	4.580	15.9	1.5	19.56
8.89	8.96	687	96	-0.07	0.0896	3.579	1.070	4.649	4.579	15.9	1.5	19.56
8.92	8.99	687	96	-0.07	0.0899	3.578	1.070	4.648	4.578	15.9	1.5	19.57
8.95	9.02	685	96	-0.07	0.0902	3.567	1.072	4.639	4.567	15.9	1.5	19.58
8.97	9.04	687	96	-0.07	0.0904	3.576	1.072	4.649	4.576	15.9	1.5	19.58
8.99	9.06	686	96	-0.07	0.0906	3.570	1.072	4.643	4.570	15.9	1.5	19.59
9.02	9.09	687	96	-0.07	0.0909	3.572	1.072	4.645	4.572	16.0	1.4	19.60
9.05	9.12	686	96	-0.07	0.0912	3.566	1.072	4.639	4.566	16.0	1.4	19.61
9.08	9.15	686	95	-0.08	0.0915	3.565	1.075	4.640	4.565	16.0	1.4	19.62
9.10	9.17	686	95	-0.08	0.0917	3.564	1.075	4.639	4.564	16.0	1.4	19.62
9.13	9.20	685	95	-0.08	0.0920	3.558	1.075	4.633	4.558	16.0	1.4	19.63
9.16	9.23	686	95	-0.08	0.0923	3.562	1.075	4.637	4.562	16.0	1.4	19.63
9.18	9.25	686	95	-0.08	0.0925	3.561	1.075	4.636	4.561	16.0	1.4	19.64
9.21	9.28	685	95	-0.08	0.0928	3.555	1.075	4.630	4,555	16.0	1.4	19.64
9.24	9.31	687	95	-0.08	0.0931	3.564	1.075	4.639	4.564	16.0	1.4	19.65

Deformació n (mm)	Deform. Unitaria %	Celda Carga N	Presión de poros (kPa)	Incremento deporos (kgf/cm <sup>2</sup> )	Deform. Unitaria	Eafuerzo Desviador (kgf/cm²)	s'3 Efectivo (kgf/cm²)	s'1 Efectivo (kgf/cm²)	s1 Total (kgf/cm <sup>2</sup> )	Lectura bureta (cm <sup>3</sup> )	Cambio volumen (cm*)	Area corregida
9.27	9.34	687	95	-0.08	0.0334	3.563	1.075	4.638	4.563	16.0	1.4	19.66
9.30	9.37	688	95	-0.08	0.0937	3.567	1.075	4.642	4.567	16.0	1.4	19.66
9.32	9.39	689	95	-0.08	0.0939	3.571	1.075	4.646	4.571	16.0	1.4	19.67
9.35	9.42	689	95	-0.08	0.0942	3.570	1.075	4.645	4.570	16.0	1.4	19.67
9.38	9.45	689	95	-0.08	0.0945	3.568	1.075	4.644	4.568	16.0	1.4	19.68
9,40	9.47	689	20	-0.08	0.0947	3.568	1.075	4.643	4.568	16.0	1.4	19,69
9.45	9.50	600	30	-0.06	0.0952	3.572	1.075	4.651	4.572	16.0	14	19.09
9.50	9.57	693	95	-0.08	0.0957	3.583	1.075	4.658	4 583	16.1	13	19.72
9.52	9.60	694	95	-0.08	0.0960	3.587	1.075	4.662	4.587	16.1	1.3	19.72
9.55	9.63	695	95	-0.08	0.0963	3,591	1.075	4.666	4.591	16.1	1.3	19.73
9.58	9.65	695	95	-0.08	0.0965	3,590	1.075	4.665	4.590	16.1	1.3	19.74
9.60	9.68	695	95	-0.08	0.0968	3.589	1.075	4.664	4.589	16.1	1.3	19.74
9.63	9.70	695	95	-0.08	0.0970	3.588	1.075	4.663	4.588	16.1	1.3	19.75
9.65	9.73	695	95	-0.08	0.0973	3.587	1.075	4.662	4.587	16.1	1.3	19.75
9.68	9.76	696	20	-0.08	0.0976	3.591	1.075	4.665	4.591	16.1	13	19.76
9.74	9,78	600	20 95	-0.08	0.0981	3,550	1.075	4,665	4.590	16.1	13	19.77
9,77	9.84	696	95	-0.08	0.0384	3.587	1.075	4,662	4.587	16.1	13	19.78
9,79	9.86	697	95	-0.08	0.0986	3.502	1.075	4.667	4,592	16.1	1.3	19.78
9.82	9.89	697	95	-0.08	0.0989	3,590	1.075	4.666	4,590	16.1	1.3	19.79
9.85	9.92	697	95	-0.08	0.0992	3.589	1.075	4.664	4.589	16.1	1.3	19.80
9.88	9.95	697	95	-0.08	0.0995	3.588	1.075	4.663	4.588	16.1	1.3	19.80
9.91	9.98	698	95	-0.08	0.0998	3.592	1.078	4.670	4.592	16.1	1.3	19.81
9.93	10.01	698	95	-0.08	0.1001	3.591	1.075	4.666	4.591	16.1	1.3	19.81
9.96	10.04	699	25	-0.08	0.1004	3,595	1.078	4.673	4,595	16.1	13	19.82
10.01	10.09	600	30	-0.06	0.1009	3,501	1.078	4.672	4,504	16.2	12	19.65
10.04	10.12	699	25	-0.08	0.1012	3,590	1.078	4.668	4.590	16.2	1.2	19.85
10.07	10.15	700	95	-0.08	0.1015	3,594	1.078	4.672	4,594	16.2	1.2	19.86
10.10	10.18	700	95	-0.08	0.1018	3.593	1.078	4.671	4.593	16.2	1.2	19.86
10.13	10.20	701	95	-0.08	0.1020	3.597	1.078	4.675	4.597	16.2	1.2	19.87
10.15	10.23	701	95	-0.08	0.1023	3.596	1.078	4.674	4.596	16.2	1.2	19.87
10.18	10.25	701	95	-0.08	0.1025	3.595	1.081	4.675	4.595	16.2	1.2	19.88
10.21	10.28	702	95	-0.08	0.1028	3.598	1.081	4.679	4.598	16.2	1.2	19.89
10.24	10.31	702	95	-0.08	0.1031	3.597	1.081	4.678	4.597	16.2	1.2	19.89
10.25	10.35	702	20	-0.08	0.1035	3,590	1.081	4.674	4.590	16.2	1.2	19.90
10.32	10.39	703	25	-0.08	0.1039	3,599	1.081	4,680	4,500	16.2	1.2	19.91
10.34	10.41	703	95	-0.08	0.1041	3,598	1.081	4.679	4.598	16.2	1.2	19.92
10.37	10.44	708	95	-0.08	0.1044	3.597	1.081	4.678	4.597	16.2	1.2	19.92
10.39	10.47	704	95	-0.08	0.1047	3.601	1.081	4.682	4.601	16.2	1.2	19.93
10.42	10.49	704	95	-0.08	0.1049	3,600	1.081	4.681	4.600	16.2	1.2	19.93
10.44	10.52	704	95	-0.08	0.1052	3.599	1.081	4.680	4.599	16.2	1.2	19.94
10.47	10.55	705	95	-0.08	0.1055	3.603	1.081	4.684	4.603	16.2	1.2	19.95
10.50	30.58	706	30	-0.08	0.1058	3.595	1.081	4.675	4.595	16.3	11	19.96
10.52	10.60	709	30	-0.08	0.1068	3,599	1.081	4.675	4,594	16.3	11	19.97
10.55	10.65	703	95	-0.08	0.1065	3.587	1.081	4.668	4.500	16.3	1.1	19.98
10.60	10.67	703	95	-0.08	0.1067	3.586	1.081	4.667	4.586	16.3	1.1	19.98
10.62	10.70	702	95	-0.08	0.1070	3.580	1.081	4.661	4.580	16.3	1.1	19.99
10.65	10.73	702	95	-0.08	0.1073	3.579	1.081	4.660	4.579	16.3	1.1	20.00
10.67	10.75	702	95	-0.08	0.1075	3.578	1.081	4.659	4.578	16.3	1.1	20.00
10.70	10.78	702	95	-0.08	0.1078	3.577	1.078	4.655	4.577	16.3	1.1	20.01
10.72	10.80	702	95	-0.08	0.1080	3.576	1.081	4.656	4.576	16.3	1.1	20.01
10.75	10.83	702	95	-0.08	0.1083	3.574	1.078	4.653	4.574	16.3	1.1	20.02
10.78	10.86	702	95	-0.08	0.1086	3.573	1.081	4.654	4.573	16.3	11	20.03
10.80	10.65	702	30	-0.08	0.1068	3.572	1.081	4.653	4.572	16.3	11	20.03
10.85	10.93	701	25	-0.08	0.1093	3.565	1.078	4,643	4,505	16.3	1.1	20.04
10.88	10.96	700	95	-0.08	0.1096	3.559	1.078	4.637	4.559	16.3	1.1	20.05
10.90	10.99	699	95	-0.08	0.1099	3.553	1.078	4.631	4.553	16.3	1.1	20.05
10.93	11.01	699	95	-0.08	0.1101	3.552	1.078	4.630	4.552	16.3	1.1	20.06
10.95	11.04	700	95	-0.08	0.1104	3.556	1.078	4.634	4.556	16.3	1.1	20.07
10.98	11.07	699	95	-0.08	0.1107	3.550	1.078	4.628	4.550	16.3	1.1	20.07
11.01	11.09	658	95	-0.08	0.1109	3.542	1.078	4.620	4.542	16.4	1.0	20.09
11.04	11.12	639	95	-0.08	0.1112	3.546	1.078	4.624	4.546	16.4	1.0	20.10
11.06	11.15	658	95	-0.08	0.1115	3.540	1.078	4.618	4.540	16.4	1.0	20.10
11109	11.17	0040	20	-0.06	u.111/	3.539	11/6	4.017	- 233	10.4	1.0	40.11

							5'3	s'1	<b>s1</b>		Carthe	
Deformació	Deform.	Celda	Presión de	incremento	Deform.	Desulador		and a set of a		Lectura	Cambio	Area
n (mm)	S	Carga N	poros (kPa)	(had /cm <sup>2</sup> )	Unitaria	(had (rm <sup>2</sup> )	Efectivo	Effectivo	Total	(cm <sup>2</sup> )	(cm <sup>2</sup> )	corregida
	~			(egycan)		(egycan)	(kat/cm <sup>2</sup> )	(kat/cm <sup>2</sup> )	(kat/cm <sup>2</sup> )	(cm)	(cm)	
11.12	11.20	697	95	-0.08	0.1120	3.532	1.075	4,608	4.532	16.4	1.0	20.11
11.14	11.23	697	95	-0.08	0.1123	3.532	1.078	4.610	4.532	16.4	1.0	20.12
11.17	11.25	696	95	-0.08	0.1125	3.525	1.075	4.601	4.525	16.4	1.0	20.12
11.19	11.28	696	95	-0.08	0.1128	3.525	1.078	4.603	4.525	16.4	1.0	20.13
11.22	11.30	696	95	-0.08	0.1130	3.523	1.078	4.601	4.523	16.4	1.0	20.14
11.25	11.33	696	95	-0.08	0.1133	3.522	1.078	4.600	4.522	16.4	1.0	20.14
11.27	11.36	695	95	-0.08	0.1136	3.516	1.078	4.594	4.516	16.4	1.0	20.15
11.30	11.38	695	30	-0.08	0.1138	3.515	1.078	4.593	4.515	16.4	1.0	20.15
11.32	11.41	695	25	-0.08	0.1141	3.514	1.078	4.592	4.514	16.4	1.0	20.16
11.35	11.46	605	30	-0.08	0.1146	3.513	1.078	4,590	4 512	16.4	1.0	20.17
11.40	11,49	695	95	-0.08	0.1149	3.511	1.078	4.589	4.511	16.4	1.0	20.18
11.43	11.51	694	95	-0.08	0.1151	3.505	1.078	4.583	4.505	16.4	1.0	20.18
11.46	11.54	695	95	-0.08	0.1154	3.509	1.078	4.587	4.509	16.4	1.0	20.19
11.49	11.57	695	95	-0.08	0.1157	3.508	1.078	4.586	4.508	16.4	1.0	20.20
11.51	11.60	695	95	-0.08	0.1160	3.506	1.078	4.585	4.506	16.4	1.0	20.20
11.53	11.62	694	95	-0.08	0.1162	3.501	1.078	4.579	4.501	16.4	1.0	20.21
11.56	11.65	695	95	-0.08	0.1165	3.504	1.078	4.583	4.504	16.4	1.0	20.22
11.59	11.67	695	95	-0.08	0.1167	3.504	1.078	4.582	4.504	16.4	1.0	20.22
11.62	11.70	605	30	-0.08	0.1170	3.502	1.078	4,580	4.502	16.4	1.0	20.23
11.67	11.75	605	30	-0.08	0.1175	3.500	1.078	4.579	4.501	16.4	1.0	20.25
11.69	11.78	695	25	-0.08	0.1178	3,499	1.078	4.577	4,400	16.4	1.0	20.25
11.72	11.81	695	95	-0.08	0.1181	3.498	1.078	4.576	4.438	16.4	1.0	20.25
11.75	11.84	694	95	-0.08	0.1184	3.492	1.078	4.570	4.492	16.4	1.0	20.26
11.77	11.86	694	95	-0.08	0.1186	3.491	1.078	4.569	4.491	16.4	1.0	20.26
11.80	11.89	695	95	-0.08	0.1189	3,495	1.078	4.573	4,495	16.4	1.0	20.27
11.83	11.92	694	95	-0.08	0.1192	3.489	1.078	4.567	4.489	16.4	1.0	20.28
11.86	11.95	695	95	-0.08	0.1195	3.493	1.078	4.571	4.493	16.4	1.0	20.28
11.88	11.97	695	95	-0.08	0.1197	3.492	1.078	4.570	4.492	16.4	1.0	20.29
11.91	12.00	695	25	-0.08	0.1200	3.491	1.078	4.569	4.491	16.4	1.0	20.30
11.99	12.05	600	30	-0.08	0.1205	3,469	1.078	4,500	4.409	16.4	1.0	20.30
11.99	12.08	694	25	-0.08	0.1208	3.482	1.078	4,560	4.482	16.4	1.0	20.31
12.02	12.11	695	95	-0.08	0.1211	3.486	1.078	4.564	4.486	16.4	1.0	20.32
12.04	12.13	694	95	-0.08	0.1213	3.480	1.078	4.558	4,480	16.4	1.0	20.33
12.07	12.16	695	95	-0.08	0.1216	3.484	1.075	4.560	4.484	16.4	1.0	20.33
12.10	12.19	695	95	-0.08	0.1219	3.483	1.078	4.561	4.483	16.4	1.0	20.34
12.13	12.22	695	95	-0.08	0.1222	3.482	1.078	4.560	4.482	16.4	1.0	20.35
12.15	12.24	695	95	-0.08	0.1224	3.481	1.075	4.556	4.481	16.4	1.0	20.35
12.18	12.27	696	95	-0.08	0.1227	3.485	1.075	4.560	4.485	16.4	1.0	20.36
12.20	12.30	696	25	-0.08	0.1230	3.464	1.075	4.559	4.454	16.4	1.0	20.37
12.25	12.32	606	30	-0.08	0.1232	3,463	1.078	4.501	4,403	16.4	1.0	20.37
12.25	12.35	696	95	-0.08	0.1235	3,481	1.075	4,556	4.481	16.4	1.0	20.36
12.31	12.40	696	95	-0.08	0.1240	3.479	1.075	4.555	4,479	16.4	1.0	20.39
12.33	12,43	697	95	-0.08	0.1243	3,484	1.075	4.559	4.484	16.4	1.0	20,40
12.36	12.46	697	95	-0.08	0.1246	3.482	1.075	4.558	4,482	16.4	1.0	20.40
12.39	12.48	697	95	-0.08	0.1248	3.481	1.075	4.557	4.481	16.4	1.0	20.41
12.41	12.51	698	95	-0.08	0.1251	3.485	1.075	4.561	4.485	16.4	1.0	20.41
12.44	12.53	698	25	-0.08	0.1258	3.484	1.075	4.559	4.484	16.4	1.0	20.42
12.47	12.56	698	95	-0.08	0.1256	3.483	1.075	4.558	4.483	16.4	1.0	20.43
12.50	12.59	658	95	-0.08	0.1259	3.482	1.075	4.557	4.482	16.4	1.0	20.43
12.55	12.62	600	30	-0.08	0.1262	3.461	1.075	4,550	4,481	16.4	1.0	20.44
12.35	12.69	600	30	-0.08	0.1267	3,460	1.075	4,550	4.465	16.4	10	20.45
12.61	12 20	600	95	-0.08	0.1220	3,483	1.075	4 558	4 483	16.4	10	20.46
12.63	12.72	699	25	-0.08	0.1272	3.482	1.075	4,557	4.482	16.4	1.0	20.47
12.66	12.75	699	95	-0.08	0.1275	3.481	1.075	4.556	4.481	16.4	1.0	20.47
12.69	12.78	699	96	-0.07	0.1278	3.479	1.072	4.552	4,479	16.4	1.0	20.48
12.71	12.81	699	96	-0.07	0.1281	3.478	1.072	4.551	4.478	16.4	1.0	20.49
12.74	12.83	699	95	-0.08	0.1283	3.477	1.075	4.553	4,477	16.4	1.0	20.49
12.76	12.86	699	95	-0.08	0.1286	3.476	1.075	4.551	4.476	16.4	1.0	20.50
12.79	12.88	699	96	-0.07	0.1288	3.475	1.072	4.548	4,475	16.4	1.0	20.50
12.81	12.91	699	96	-0.07	0.1291	3,474	1.072	4.547	4.474	16.4	1.0	20.51
12.84	12.94	700	36	-0.07	0.1294	3,478	1.072	4.550	4.478	16.4	1.0	20.52
12.07	12.00	700	20	-0.07	0.1200	3,477	1,072	4.549	4,000	16.4	10	20.52
12.00	13.02	200	30	-0.07	0.1902	3,475	1.072	4,547	4,475	16.4	1.0	20.55
		1.000									-	and so the

Deformació n (mm)	Deform. Unitaria	Celda Carga N	Presión de poros (kPa)	Incremento deporos (kgf/cm <sup>2</sup> )	Deform. Unitaria	Esfuerzo Desviador (kgf/cm <sup>2</sup> )	s'3 Efectivo	s'1 Efectivo	s1 Total	Lectura bureta (cm <sup>3</sup> )	Cambio volumen (cm <sup>3</sup> )	Area corregida
							(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )			
12.95	13.05	699	96	-0.07	0.1305	3.469	1.072	4.541	4.469	16.4	1.0	20.54
12.98	13.08	699	96	-0.07	0.1308	3.467	1.072	4.540	4,467	16.4	1.0	20.55
13.00	13.10	699	96	-0.07	0.1310	3.467	1.072	4.539	4.467	16.4	1.0	20.55
13.05	13.15	699	26	-0.07	0.1315	3.465	1.072	4.530	4.465	16.4	1.0	20.56
13.08	13.18	699	96	-0.07	0.1318	3.463	1.072	4.536	4.463	16.4	1.0	20.57
13.11	13.21	698	96	-0.07	0.1321	3.457	1.072	4.530	4.457	16.4	1.0	20.58
13.13	13.23	698	96	-0.07	0.1323	3.456	1.072	4.529	4.456	16.4	1.0	20.59
13.16	13.26	698	96	-0.07	0.1326	3.455	1.072	4.528	4.455	16.4	1.0	20.59
13.19	13.29	697	90	-0.07	0.1329	3.449	1.072	4.522	4,449	16.4	1.0	20.60
13.24	13.34	697	26	-0.07	0.1334	3.447	1.072	4.520	4,447	16.4	1.0	20.61
13.26	13.36	697	96	-0.07	0.1336	3.446	1.072	4.519	4.446	16.4	1.0	20.62
13.29	13.39	696	96	-0.07	0.1339	3.440	1.072	4.513	4,440	16.4	1.0	20.62
13.32	13.42	697	96	-0.07	0.1342	3.444	1.072	4.516	4.444	16.4	1.0	20.63
13.35	13.45	696	96	-0.07	0.1345	3.438	1.072	4.510	4.438	16.4	1.0	20.64
13.37	13.47	696	96	-0.07	0.1350	3,437	1.072	4.509	4.437	16.4	1.0	20.69
13,42	13.52	696	96	-0.07	0.1352	3.435	1.070	4.505	4,435	16.4	1.0	20.65
13.45	13.55	696	96	-0.07	0.1355	3.434	1.072	4.506	4.434	16.4	1.0	20.66
13.47	13.57	696	96	-0.07	0.1357	3.433	1.072	4.505	4.433	16.4	1.0	20.67
13.49	13.59	696	96	-0.07	0.1359	3.432	1.072	4.505	4.432	16.4	1.0	20.67
13.51	13.61	695	96	-0.07	0.1361	3.425	1.070	4,494	4.425	16.5	0.9	20.69
13.59	13.09	600	30	-0.07	0.1367	3.423	1,070	4,490	4,423	16.5	0.9	20.09
13.60	13.70	694	96	-0.07	0.1370	3.416	1.072	4,489	4.416	16.5	0.9	20.70
13.63	13.73	694	96	-0.07	0.1373	3.415	1.072	4,488	4.415	16.5	0.9	20.72
13.66	13.76	693	96	-0.07	0.1376	3.409	1.070	4,479	4.409	16.5	0.9	20.72
13.68	13.78	694	96	-0.07	0.1378	3.413	1.070	4.483	4.413	16.5	0.9	20.73
13.71	13.81	693	96	-0.07	0.1381	3.407	1.070	4.477	4.407	16.5	0.9	20.73
13.75	13.86	693	96	-0.07	0.1384	3,405	1.072	4,478	4,405	16.5	0.9	20.74
13.78	13.89	682	96	-0.07	0.1389	3,399	1.070	4,469	4.399	16.5	0.9	20.75
13.81	13.91	682	96	-0.07	0.1391	3.398	1.072	4.471	4.338	16.5	0.9	20.76
13.83	13.94	691	96	-0.07	0.1394	3.392	1.070	4.462	4.392	16.5	0.9	20.77
13.86	13.97	691	96	-0.07	0.1397	3.391	1.070	4.461	4.391	16.5	0.9	20.77
13.88	13.99	650	96	-0.07	0.1399	3.385	1.070	4,455	4.385	16.5	0.9	20.78
13.91	14.03	620	30	-0.07	0.1403	3.379	1.070	4,449	4.379	16.5	0.9	20.78
13.96	14.06	689	96	-0.07	0.1406	3.377	1.070	4,447	4.377	16.5	0.9	20.80
13.98	14.08	688	96	-0.07	0.1408	3.372	1.070	4.441	4.372	16.5	0.9	20.80
14.01	14.11	688	96	-0.07	0.1411	3.369	1.070	4.438	4.369	16.6	8.0	20.82
14.04	14.14	688	96	-0.07	0.1414	3.368	1.070	4.437	4.368	16.6	8.0	20.83
14.06	14.16	687	96	-0.07	0.1416	3.362	1.070	4,432	4.362	16.6	8.0	20.83
14.11	14.21	686	20	-0.07	0.1421	3,955	1.070	4,425	4.301	16.6	0.8	20.84
14.14	14.24	686	96	-0.07	0.1424	3.354	1.070	4,424	4.354	16.6	0.8	20.85
14.16	14.26	686	96	-0.07	0.1426	3.353	1.070	4.423	4.353	16.6	0.8	20.86
14.19	14.29	685	96	-0.07	0.1429	3.347	1.067	4.414	4.347	16.6	0.8	20.86
14.21	14.32	685	96	-0.07	0.1432	3.346	1.067	4.413	4.346	16.6	0.8	20.87
14.24	14.34	682	36	-0.07	0.1434	3.345	1.070	4,415	4.345	16.6	0.8	20.87
14.25	14.37	609	36	-0.07	0.1439	3.339	1.067	4,400	4.339	16.6	0.8	20.85
14.32	14.42	684	26	-0.07	0.1442	3.337	1.067	4,404	4.337	16.6	0.8	20.89
14.34	34.45	685	96	-0.07	0.1445	3.341	1.067	4.408	4.341	16.6	8.0	20.90
14.37	14.47	685	96	-0.07	0.1447	3.340	1.067	4.407	4.340	16.6	8.0	20.91
14.39	14.50	685	96	-0.07	0.1450	3.339	1.067	4.406	4.339	16.6	8.0	20.91
14.42	14.53	685	96	-0.07	0.1453	3.338	1.067	4,405	4.338	16.6	8.0	20.92
14.45	34.55	646	36	-0.07	0.1458	3.337	1.067	4,409	4.337	16.6	0.8	20.95
14.50	14.61	686	96	-0.07	0.1461	3.338	1.067	4,405	4.338	16.7	0.7	20.95
14.52	14.63	685	96	-0.06	0.1463	3.332	1.064	4.396	4.332	16.7	0.7	20.96
14.55	14.66	687	96	-0.07	0.1466	3.341	1.067	4.408	4.341	16.7	0.7	20.96
14.58	14.69	687	96	-0.07	0.1469	3.340	1.067	4.406	4.340	16.7	0.7	20.97
14.61	14.72	687	96	-0.07	0.1472	3.338	1.067	4,405	4.338	16.7	0.7	20.98
14.64	14.77	687	36	-0.07	0.1477	3.337	1.067	4,409	4,337	16.7	0.7	20.96
14.70	14.81	688	26	-0.07	0.1481	3,340	1.067	4,407	4,340	16.7	0.7	21.00
14.72	14.83	688	96	-0.06	0.1483	3.339	1.064	4.403	4.339	16.7	0.7	21.00

Deformació	Deform.	Celda	Presión de	Incremento	Deform.	Esfuerzo Desviador	s'3 Hertin	s'1 Martin	s1 Total	Lectura	Cambio	Area
n (mm)	×	Carga N	poros (kPa)	(kgf/cm <sup>2</sup> )	Unitaria	(kgf/cm²)	(het/web)	(had (mail)	(hat (m))	(cm³)	(cm <sup>3</sup> )	corregida
		600		0.04	0.1100		(kgt/cm <sup>*</sup> )	(kgt/cm*)	(kgt/cm <sup>*</sup> )			
14.75	14.86	688	96	-0.06	0.1486	3.338	1.064	4,402	4.338	16.7	0.7	21.01
14.90	14.00	600	20	-0.06	0.1400	3,337	1.064	4,400	4.337	16.7	0.7	21.02
14.83	14.94	6.98	96	-0.05	0.1494	3,335	1.064	4,999	4,335	16.7	0.7	21.02
14.85	14.97	689	96	-0.06	0.1497	3.338	1.064	4,403	4.338	16.7	0.7	21.04
14.88	15.00	689	96	-0.06	0.1500	3.337	1.064	4,401	4.337	16.7	0.7	21.05
14.90	15.02	689	96	-0.05	0.1502	3.336	1.064	4.401	4.336	16.7	0.7	21.05
14.93	15.05	690	96	-0.06	0.1505	3.340	1.064	4.404	4.340	16.7	0.7	21.06
14.96	15.07	690	96	-0.06	0.1507	3.339	1.064	4.403	4.339	16.7	0.7	21.07
14.99	15.10	691	96	-0.06	0.1510	3.343	1.064	4.407	4.343	16.7	0.7	21.07
15.02	15.13	691	96	-0.06	0.1513	3.340	1.064	4,404	4.340	16.8	0.6	21.09
15.05	15.10	690	90	-0.06	0.1516	3.339	1.061	4,396	4.334	16.8	0.6	21.10
15.10	15.21	601	27	-0.05	0.1521	3,330	1.064	4.339	4,330	16.8	0.6	21.11
15.13	15.24	602	97	-0.05	0.1524	3.341	1.061	4,402	4.341	16.8	0.6	21.12
15.16	15.27	692	97	-0.06	0.1527	3.339	1.061	4,401	4.339	16.8	0.6	21.12
15.18	15.29	682	97	-0.06	0.1529	3.339	1.061	4,400	4,339	16.8	0.6	21.13
15.21	15.32	682	96	-0.05	0.1532	3.337	1.064	4.401	4.337	16.8	0.6	21.14
15.24	15.35	692	96	-0.06	0.1535	3.336	1.064	4.400	4.336	16.8	0.6	21.14
15.26	15.38	682	97	-0.06	0.1538	3.335	1.061	4.396	4.335	16.8	0.6	21.15
15.29	15,41	692	97	-0.06	0.1541	3.334	1.061	4.395	4.334	16.8	0.6	21.16
15.31	15.43	652	97	-0.06	0.1543	3.333	1.061	4.394	4.333	16.8	0.6	21.16
15.34	15,46	692	97	-0.06	0.1546	3.332	1.061	4,393	4.332	16.8	0.6	21.17
15.40	15,49	600	27	-0.06	0.1553	3,331	1.064	4,392	4,331	16.0	0.6	21.10
15.43	15.52	602	97	-0.05	0.1555	3,300	1.061	4,390	4,330	16.8	0.6	21.19
15,46	15.57	693	96	-0.06	0.1557	3.332	1.064	4,396	4.332	16.8	0.6	21.20
15,48	15.60	694	96	-0.06	0.1560	3.336	1.064	4,400	4.336	16.8	0.6	21.21
15.51	15.63	694	97	-0.06	0.1563	3.335	1.061	4.396	4.335	16.8	0.6	21.21
15.54	15.65	694	97	-0.06	0.1565	3.334	1.061	4.395	4.334	16.8	0.6	21.22
15.57	15.68	695	97	-0.06	0.1568	3.337	1.061	4.399	4.337	16.8	0.6	21.23
15.59	15.70	695	97	-0.05	0.1570	3.337	1.061	4.398	4.337	16.8	0.6	21.23
15.62	15.73	694	96	-0.06	0.1573	3.331	1.064	4.395	4.331	16.8	0.6	21.24
15.64	15.76	695	96	-0.06	0.1576	3.334	1.064	4,398	4.334	16.8	0.6	21.25
15.67	45.76	604	30	-0.06	0.1591	3.329	1.061	4,393	4.329	10.0	0.6	21.25
15.09	15.81	604	97	-0.05	0.1583	3.320	1.061	4.369	4.328	16.8	0.6	21.20
15.75	15.86	693	97	-0.06	0.1586	3.321	1.061	4,382	4.321	16.8	0.6	21.27
15.77	15.89	693	97	-0.06	0.1589	3.320	1.061	4.381	4.320	16.8	0.6	21.28
15.80	15.91	692	97	-0.06	0.1591	3.314	1.061	4.375	4.314	16.8	0.6	21.29
15.82	15.94	692	97	-0.06	0.1594	3.313	1.061	4.374	4.313	16.8	0.6	21.29
15.85	15.96	692	97	-0.05	0.1596	3.312	1.061	4.373	4.312	16.8	0.6	21.30
15.87	15.99	691	97	-0.06	0.1599	3.306	1.061	4.367	4.306	16.8	0.6	21.31
15.90	16.02	691	97	-0.06	0.1602	3.305	1.061	4.366	4.305	16.8	0.6	21.31
15.92	15.04	691	97	-0.06	0.1604	3.304	1.061	4.365	4.304	16.8	0.6	21.32
15.95	16.00	600	3//	-0.06	0.1600	3.290	1.061	4.350	4,236	16.8	0.6	21.32
15.97	36.09	690	97	-0.06	0.1612	3.297	1.061	4,359	4.237	16.8	0.5	21.33
16.03	16.15	689	97	-0.06	0.1615	3,289	1.061	4,350	4,289	16.9	0.5	21.35
16.05	16.18	689	97	-0.06	0.1618	3.288	1.059	4.346	4.288	16.9	0.5	21.36
16.08	16.20	689	97	-0.06	0.1620	3.287	1.061	4.348	4.287	16.9	0.5	21.37
16.10	16.23	689	97	-0.06	0.1623	3.286	1.059	4.344	4.286	16.9	0.5	21.38
16.13	16.25	689	97	-0.05	0.1625	3.285	1.059	4.343	4.285	16.9	0.5	21.38
16.16	16.28	688	97	-0.06	0.1628	3.279	1.061	4.340	4.279	16.9	0.5	21.39
16.18	16.31	688	97	-0.06	0.1631	3.278	1.061	4.339	4.278	16.9	0.5	21.40
16.21	16.33	688	97	-0.06	0.1633	3.277	1.059	4.335	4.277	16.9	0.5	21.40
16.24	16.36	688	97	-0.06	0.1636	3.276	1.059	4.334	4.276	16.9	0.5	21.41
16.25	16.38	600	37	-0.06	0.1638	3.275	1.059	4,333	4.275	16.9	0.5	21.42 21.42
16.92	16.44	6.88	97	-0.06	0.1644	3,272	1.059	4,331	4,272	16.9	0.5	21.43
16.35	16.47	688	97	-0.06	0.1647	3,271	1.059	4,330	4,271	16.9	0.5	21.44
16.37	16.49	688	97	-0.06	0.1649	3.270	1.059	4.329	4.270	16.9	0.5	21.44
16.40	16.52	688	97	-0.06	0.1652	3.269	1.059	4.328	4.269	16,9	0.5	21.45
16.42	16.54	687	97	-0.06	0.1654	3.264	1.059	4.322	4.264	16.9	0.5	21.46
16.46	16.58	687	97	-0.06	0.1658	3.262	1.059	4.321	4.262	16.9	0.5	21.A7
16.48	16.60	687	97	-0.06	0.1660	3.261	1.059	4.320	4.261	16.9	0.5	21.A7
16.51	16.63	687	97	-0.06	0.1663	3.260	1.059	4.319	4.260	16.9	0.5	21.48
16.54	16.66	687	97	-0.06	0.1666	3.259	1.059	4.318	4.259	16.9	0.5	21.49
16.56	16.69	686	97	-0.06	0.1669	3.253	1.059	4.312	4.253	16.9	0.5	21.49

n (me)         Untaria N         Carga N (af/cm)         pores (bra) (af/cm)         Untaria (br/cm)         Dirition (br/cm)         Techton (br/cm)         Energy (br/cm)         Durition (cm)         Durition (cm) <thdurition (cm)         Durition (cm)         <thdurit< th=""><th>Deformació</th><th>Deform.</th><th>Celda</th><th>Presión de</th><th>Incremento</th><th>Deform.</th><th>Esfuerzo</th><th>5'3</th><th>s'1</th><th>s<b>1</b></th><th>Lectura</th><th>Cambio</th><th>Area</th></thdurit<></thdurition 	Deformació	Deform.	Celda	Presión de	Incremento	Deform.	Esfuerzo	5'3	s'1	s <b>1</b>	Lectura	Cambio	Area
International and the system of the	n (mm)	Unitaria %	Carga N	poros (kPa)	(kgt/cm <sup>*</sup> )	Unitaria	(kgf/cm <sup>2</sup> )	Efectivo	Efectivo	Total	(cm <sup>3</sup> )	(cm <sup>3</sup> )	corregida
16.59         16.71         685         97         -0.06         0.1671         1.248         1.169         4.350         4.281         1.6.9         6.53         71.5           16.64         16.77         6.07         97         -0.06         0.1677         1.255         1.159         4.301         4.251         1.6.9         1.567         1.456         1.667         1.456         4.667         0.1660         1.162         1.159         4.301         4.251         1.6.9         0.1660         1.159         4.301         4.251         1.6.9         0.53         2.15         1.159         4.301         4.251         1.6.9         0.53         2.15         1.157         1.168         4.111         4.518         4.69         0.53         2.12         1.158         1.159         4.301         4.251         1.6.9         0.53         2.12         1.158         1.159         4.307         4.341         1.6.9         0.53         2.12         1.158         1.159         4.307         4.341         1.6.9         0.53         2.12         1.158         1.159         4.307         4.341         1.6.9         0.53         2.12         1.158         1.159         4.311         1.159         4.331         1.								(kgf/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(kgl/cm <sup>*</sup> )			
16.04         0.5.77         0.07         0.105         0.137         4.255         1.6.9         0.537         1.13           16.07         0.5.80         0.97         -0.06         0.1582         1.259         4.310         4.325         1.6.9         0.55         1.215           16.77         0.5.85         687         97         -0.06         0.1588         1.259         4.310         4.251         1.6.9         0.5         213           16.77         0.5.85         687         97         -0.06         0.1598         1.259         4.310         4.251         1.6.9         0.5         215           16.78         5.6.91         697         -0.06         0.1599         1.326         4.307         4.348         1.6.9         0.5         215         1.6.8         6.6.9         7.7         -0.06         0.1599         4.309         4.348         1.6.9         0.5         215         1.6.8         1.6.9         0.5         215         1.6.8         1.6.9         0.5         215         1.6.9         4.309         4.341         1.6.9         0.5         215         1.6.9         1.5.9         215         1.6.9         1.5.9         216         1.6.9         215	16.59	16.71	685	97	-0.06	0.1671	3.248	1.059	4.305	4.248	16.9	0.5	21.50
16.67         25.80         688         97         -0.06         0.1560         3.249         1.259         4.301         4.281         1.69         0.53         22.5           16.77         26.85         687         97         -0.06         0.1565         3.252         1.259         4.311         4.283         1.69         0.53         22.5           16.78         26.88         687         97         -0.06         0.1568         3.281         1.051         4.312         4.281         1.69         0.53         22.5           16.81         15.63         687         97         -0.06         0.1568         3.281         1.059         4.307         4.348         1.69         0.53         22.5           16.86         16.59         0.66         97         -0.06         0.1706         3.341         1.059         4.303         4.341         1.69         0.53         22.5           16.89         17.70         687         97         -0.06         0.1706         3.321         1.259         4.303         4.341         1.69         0.53         22.15           16.97         17.70         687         97         -0.06         0.1712         3.341 <t< td=""><td>16.64</td><td>16.77</td><td>687</td><td>97</td><td>-0.06</td><td>0.1677</td><td>3.255</td><td>1.059</td><td>4.313</td><td>4.255</td><td>16.9</td><td>0.5</td><td>21.52</td></t<>	16.64	16.77	687	97	-0.06	0.1677	3.255	1.059	4.313	4.255	16.9	0.5	21.52
16.69         16.62         6.67         14.65         667         14.65         667         14.65         667         14.65         14.75         14.65         667         97         -0.06         0.1688         3.122         1.061         4.310         4.283         1.69         0.55         21.5           16.75         34.68         647         97         -0.06         0.1698         3.280         1.559         4.307         4.281         1.69         0.53         21.5           16.83         34.50         647         97         -0.06         0.1693         3.244         1.059         4.307         4.248         1.69         0.5         21.5           16.83         34.50         6467         97         -0.06         0.1704         3.241         1.059         4.303         4.241         1.69         0.5         21.5           16.89         17.01         666         97         -0.06         0.1704         3.241         1.059         4.303         4.241         1.69         0.5         21.5         1.69         1.70         1.29         4.300         4.241         1.69         0.5         21.6           17.00         17.00         17.00         0	16.67	16.80	686	97	-0.06	0.1680	3.249	1.059	4.308	4.249	16.9	0.5	21.52
18.17         18.48         607         97         4.06         1.1688         3.22         1.159         4.312         4.251         1.63         0.53         21.3           18.76         13.64         667         97         4.06         0.1688         3.281         1.061         4.312         4.280         1.63         0.53         21.3           18.81         13.63         667         97         4.06         0.1091         3.344         1.059         4.304         1.64         1.63         0.53         21.5           18.83         16.69         647         97         4.06         0.1090         3.344         1.051         4.300         4.344         1.63         0.5         21.5           18.89         17.01         646         97         4.06         0.1704         3.344         1.059         4.290         4.301         6.50         0.5         21.5           16.97         17.06         646         97         4.06         0.1702         3.242         1.59         4.290         4.50         0.5         21.6           17.02         17.02         17.02         17.02         17.02         17.02         17.02         17.02         17.02 <td>16.69</td> <td>16.82</td> <td>687</td> <td>97</td> <td>-0.06</td> <td>0.1682</td> <td>3.253</td> <td>1.059</td> <td>4.311</td> <td>4.253</td> <td>16.9</td> <td>0.5</td> <td>21.53</td>	16.69	16.82	687	97	-0.06	0.1682	3.253	1.059	4.311	4.253	16.9	0.5	21.53
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	16.72	16.88	687	97	-0.06	0.1688	3.252	1.059	4.310	4.252	16.9	0.5	21.54
16.81         16.83         16.84         16.84         16.85         4.324         16.90         0.5         21.5           16.86         16.90         16.86         16.90         16.87         16.90         16.89         16.90         17.90         16.90         16.90         16.90         17.90         16.90         16.90         16.90         17.90         16.90         16.90         16.90         17.90         16.90         16.90         17.90         16.90         16.90         17.90         16.90         16.90         17.90         16.90         16.90         17.90         16.90         16.90         16.90         17.90         16.90         16.90         17.90         16.90         16.90         17.90         16.90         17.90         16.90         17.90         16.90         17.90         16.90         17.90         16.90         17.90         17.90         17.90<	16.78	16.91	687	97	-0.06	0.1691	3.250	1.059	4.308	4.250	16.9	0.5	21.55
16.33         15.96         687         97         -0.06         0.1099         3.248         1.061         4.300         4.248         1.6.9         0.5         213           16.89         17.01         686         97         -0.06         0.11901         3.244         1.059         4.300         4.243         1.6.9         0.5         213           16.49         17.04         686         97         -0.06         0.11704         3.244         1.059         4.301         4.343         1.6.9         0.5         215           16.49         17.00         677         -0.06         0.1172         3.241         1.059         4.301         4.342         1.6.9         0.5         21.6           17.00         17.15         667         97         -0.06         0.1712         3.243         1.059         4.326         4.431         1.6.9         0.5         21.6           17.05         17.18         667         97         -0.06         0.1723         3.277         1.059         4.326         4.423         1.6.9         0.5         21.6           17.12         17.13         647         97         -0.06         0.1723         3.277         1.059 <t< td=""><td>16.81</td><td>16.93</td><td>687</td><td>97</td><td>-0.06</td><td>0.1693</td><td>3.248</td><td>1.059</td><td>4.307</td><td>4.248</td><td>16.9</td><td>0.5</td><td>21.56</td></t<>	16.81	16.93	687	97	-0.06	0.1693	3.248	1.059	4.307	4.248	16.9	0.5	21.56
12.650         12.99         630         97         -0.06         0.11701         1.241         1.059         4.201         1.2.9         0.3         21.5           16.82         17.04         647         97         -0.06         0.11704         1.244         1.059         4.227         4.221         1.6.3         0.55         21.5           16.97         17.06         646         97         -0.06         0.11706         1.229         4.237         4.231         1.6.3         0.55         21.5           17.00         17.12         647         97         -0.06         0.11712         3.441         1.059         4.320         4.341         1.6.3         0.5         21.6           17.02         17.15         647         97         -0.06         0.1773         3.738         1.059         4.326         4.343         1.6.3         0.5         21.6           17.10         17.12         647         97         -0.06         0.1723         3.237         1.059         4.226         4.237         1.6.3         0.5         21.6           17.12         17.14         17.15         3.237         1.059         4.226         4.237         1.6.3         0.5	16.83	16.96	687	97	-0.06	0.1696	3.248	1.061	4.309	4.248	16.9	0.5	21.56
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	16.89	17.01	686	97	-0.06	0.1699	3.242	1.059	4.300	4.242	16.9	0.5	21.57
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	16.92	17.04	687	97	-0.06	0.1704	3.244	1.059	4.303	4.244	16.9	0.5	21.59
	16.94	17.06	686	97	-0.06	0.1706	3.239	1.059	4.297	4.239	16.9	0.5	21.59
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	16.97	17.09	687	97	-0.06	0.1709	3.242	1.059	4.301	4.242	16.9	0.5	21.60
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17.00	17.12	687	97	-0.06	0.1712	3.241	1.059	4.300	4.241	16.9	0.5	21.61
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17.05	17.18	688	97	-0.06	0.1718	3.243	1.059	4.302	4.243	16.9	0.5	21.62
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	17.07	17.20	687	97	-0.06	0.1720	3.238	1.059	4.296	4.238	16.9	0.5	21.63
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17.10	17.23	687	97	-0.06	0.1723	3.237	1.059	4.295	4.237	16.9	0.5	21.64
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	17.12	17.25	638	97	-0.06	0.1725	3.241	1.059	4.299	4.241	16.9	0.5	21.64
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	17.18	17.31	688	97	-0.06	0.1731	3.238	1.059	4.297	4.238	16.9	0.5	21.66
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	17.21	17.34	688	97	-0.06	0.1734	3.237	1.059	4.296	4.237	16.9	0.5	21.66
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	17.23	17.36	688	97	-0.06	0.1736	3.236	1.059	4.295	4.236	16.9	0.5	21.67
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	17.26	17.39	6359	97	-0.06	0.1739	3.240	1.059	4.298	4.240	16.9	0.5	21.68
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17.30	17.45	689	97	-0.06	0.1745	3.238	1.059	4.296	4.238	16.9	0.5	21.69
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17.35	17.48	689	97	-0.06	0.1748	3.237	1.061	4.298	4.237	16.9	0.5	21.70
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	17.38	17.51	689	97	-0.06	0.1751	3.235	1.061	4.297	4.235	16.9	0.5	21.71
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	17.40	17.53	690	97	-0.06	0.1758	3.239	1.061	4.301	4.239	16.9	0.5	21.71
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17.45	17.50	690	97	-0.06	0.1759	3.230	1.061	4.298	4.237	16.9	0.5	21.73
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17.48	17.61	691	97	-0.06	0.1761	3.241	1.061	4.302	4.241	16.9	0.5	21.74
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17.51	17.64	681	97	-0.06	0.1764	3.240	1.061	4.301	4.240	16.9	0.5	21.74
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17.53	17.67	691	97	-0.06	0.1767	3.239	1.061	4.300	4.239	16.9	0.5	21.75
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17.58	17.72	691	97	-0.06	0.1772	3.236	1.061	4.298	4.236	16.9	0.5	21.76
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17.61	17.74	682	96	-0.06	0.1774	3.240	1.064	4.304	4.240	16.9	0.5	21.77
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17.64	17.77	691	97	-0.06	0.1777	3.234	1.061	4.296	4.234	16.9	0.5	21.78
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17.66	17.80	692	96	-0.06	0.1780	3.238	1.064	4.302	4.238	16.9	0.5	21.78
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17.00	17.85	682	97	-0.06	0.1785	3.236	1.061	4.290	4.236	16.9	0.5	21.80
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	17.74	17.88	682	96	-0.06	0.1788	3.235	1.064	4.299	4.235	16.9	0.5	21.81
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17.77	17.90	693	96	-0.06	0.1790	3.238	1.064	4.303	4.238	16.9	0.5	21.81
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	17.79	17.93	693	96	-0.06	0.1795	3.238	1.064	4.302	4.238	16.9	0.5	21.82
17.87         18.01         693         96         -0.06         0.1801         3.234         1.064         4.299         4.234         16.9         0.5         21.8           17.90         18.04         693         96         -0.06         0.1804         3.233         1.064         4.297         4.233         16.9         0.5         21.8           17.90         18.06         693         96         -0.06         0.1806         3.732         1.064         4.297         4.233         16.9         0.5         21.8           17.93         18.06         693         96         -0.06         0.1806         3.732         1.064         4.296         4.232         16.9         0.5         21.8           17.96         18.09         693         96         -0.06         0.1809         3.231         1.064         4.295         4.231         16.9         0.5         21.8           17.96         18.11         693         96         -0.06         0.1811         3.730         1.064         4.294         4.230         16.9         0.5         21.8           18.01         18.14         693         96         -0.06         0.1814         3.229         1.064<	17.82	17.96	693	20	-0.06	0.1798	3.235	1.064	4,301	4.235	16.9	0.5	21.83
17.90         18.04         693         96         -0.06         0.1804         3.233         1.064         4.297         4.233         16.9         0.5         21.8           17.93         18.06         693         96         -0.06         0.1806         3.332         1.064         4.297         4.233         16.9         0.5         21.8           17.93         18.06         693         96         -0.06         0.1806         3.332         1.064         4.296         4.232         16.9         0.5         21.8           17.96         18.09         693         96         -0.06         0.1811         3.231         1.064         4.296         4.231         16.9         0.5         21.8           17.96         18.10         693         96         -0.06         0.1811         3.230         1.064         4.294         4.230         16.9         0.5         21.8           18.01         18.14         693         96         -0.06         0.1814         3.229         1.064         4.293         4.229         16.9         0.5         21.8	17.87	18.01	693	96	-0.06	0.1801	3.234	1.064	4.299	4.234	16.9	0.5	21.84
17.33         18.06         693         96         -0.06         0.1306         3.732         1.064         4.296         4.732         16.9         0.5         21.8           17.96         18.09         693         96         -0.06         0.1809         3.231         1.064         4.295         4.231         16.9         0.5         21.8           17.96         18.09         693         96         -0.06         0.1811         3.231         1.064         4.295         4.231         16.9         0.5         21.8           17.96         18.11         693         96         -0.06         0.1811         3.230         1.064         4.294         4.230         16.9         0.5         21.8           18.01         18.14         693         96         -0.06         0.1814         3.229         1.064         4.293         4.229         16.9         0.5         21.8	17.90	18.04	693	96	-0.06	0.1804	3.233	1.064	4.297	4.233	16.9	0.5	21.85
17.30         18.00         500         90         40.00         1.050         3.131         1.056         4.235         4.231         16.9         0.5         21.8           17.98         18.11         698         96         -0.06         0.1811         3.230         1.064         4.294         4.230         16.9         0.5         21.8           18.01         18.14         698         96         -0.06         0.1814         3.229         1.064         4.293         4.229         16.9         0.5         21.8	17.93	18.06	693	96	-0.06	0.1806	3.232	1.064	4.296	4.232	16.9	0.5	21.85
18.01 18.14 698 96 -0.06 0.1814 3.229 1.064 4.293 4.229 16.9 0.5 21.8	17.96	18.09	693	96 96	-0.06	0.1809	3.231	1.064	4.295	4.231	16.9	0.5	21.85
	18.01	18.14	693	96	-0.06	0.1814	3.229	1.064	4.293	4.229	16.9	0.5	21.88
18.04 18.17 693 96 -0.06 0.1817 3.228 1.064 4.292 4.228 16.9 0.5 21.8	18.04	18.17	693	96	-0.06	0.1817	3.228	1.064	4.292	4.228	16.9	0.5	21.89
18.07 18.20 693 96 -0.06 0.1820 3.227 1.064 4.291 4.227 16.9 0.5 21.8	18.07	18.20	693	96	-0.06	0.1820	3.227	1.064	4.291	4.227	16.9	0.5	21.89
18.07 18.22 695 97 -0.06 0.1822 3.226 1.061 4.267 4.226 16.9 0.5 21.9 18.11 18.24 694 96 -0.06 0.1824 3.290 1.064 4.294 4.290 16.9 0.5 21.9	18.09	18.22	693	97 96	-0.06	0.1822	3.226	1.061	4.287	4.226	16.9	0.5	21.90
18.14 18.27 693 97 -0.06 0.1827 3.224 1.061 4.285 4.224 16.9 0.5 21.9	18.14	18.27	693	97	-0.06	0.1827	3.224	1.061	4.285	4.224	16.9	0.5	21.91
18.17 18.30 698 97 -0.06 0.1830 3.223 1.061 4.284 4.223 16.9 0.5 21.9	18.17	18.30	693	97	-0.06	0.1830	3.223	1.061	4.284	4.223	16.9	0.5	21.92
18.19 18.32 698 97 -0.06 0.1832 3.222 1.061 4.283 4.222 16.9 0.5 21.9	18.19	18.32	693	97	-0.06	0.1832	3.222	1.061	4.283	4.222	16.9	0.5	21.93
16.22 16.35 693 97 40.06 0.1835 1.221 1.061 4.282 4.221 16.9 0.5 21.9	18.22	18.35	693	97	-0.06	0.1835	3.221	1.061	4.282	4.221	16.9	0.5	21.93
18.27 18.40 698 97 -0.06 0.1840 3.219 1.061 4.260 4.219 16.9 0.5 21.9	18.24	18.40	693	97	-0.06	0.1840	3,219	1.061	4,280	4,219	16.9	0.5	21.95
18.30 18.43 698 97 -0.06 0.1843 3.218 1.061 4.279 4.218 16.9 0.5 21.9	18.30	18.43	693	97	-0.06	0.1843	3.218	1.061	4.279	4.218	16.9	0.5	21.96
18.32 18.45 698 97 -0.06 0.1845 3.217 1.061 4.278 4.217 16.9 0.5 21.9	18.32	18,45	693	97	-0.06	0.1845	3.217	1.061	4.278	4.217	16.9	0.5	21.96
18.35 18.46 693 97 -0.06 0.1848 3.216 1.061 4.277 4.216 16.9 0.5 21.9	18.35	18.48	693	97	-0.06	0.1848	3.216	1.061	4.277	4.216	16.9	0.5	21.97
18.57 18.51 590 97 -0.06 0.1851 3.215 1.061 4.276 4.215 16.9 0.5 21.9 18.40 18.53 698 97 -0.06 0.1853 3.214 1.059 4.272 4.214 16.9 0.5 21.9	18.40	18.51	693	97	-0.06	0.1851	3.215	1.061	4,275	4,215	16.9	0.5	21.98

## 8:02 p. m.

Deformació	Deform.	Celda	Presión de	Incremento	Deform	Esfuerzo	13	61	s <b>1</b>	Lectura	Cambio	Area
n (mm)	Unitaria %	Carga N	poros (kPa)	deporos (kat/cm <sup>2</sup> )	Unitaria	Desviador (kat/cm <sup>2</sup> )	Efectivo	Efectivo	Total	bureta (cm <sup>2</sup> )	(cm <sup>2</sup> )	corregida
				(series)		(sep) see (	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgl/cm <sup>2</sup> )	(em )	(	
18.42	18.56	693	97	-0.06	0.1856	3.212	1.059	4.271	4.212	16.9	0.5	21.99
18.45	18.59	693	97	-0.06	0.1859	3.212	1.059	4.270	4.212	16.9	0.5	22.00
18.47	18.61	692	97	-0.06	0.1861	3.206	1.056	4.262	4.206	16.9	0.5	22.00
18.50	18.64	682	97	-0.06	0.1864	3.205	1.059	4.263	4.205	16.9	0.5	22.01
18.53	18.66	682	97	-0.06	0.1866	3.204	1.059	4.262	4.204	16.9	0.5	22.02
18.55	18.69	652	97	-0.06	0.1869	3.203	1.056	4.259	4.203	16.9	0.5	22.02
18.56	18.72	652	97	-0.06	0.1872	3.202	1.056	4.257	4.202	16.9	0.5	22.03
18,60	18.74	089	97	-0.06	0.1874	3.187	1.056	4.242	4.187	16.9	0.5	22.04
18.63	18.77	689	97	-0.06	0.1877	3.186	1.056	4.241	4.186	16.9	0.5	22.05
18.65	18.79	690	97	-0.06	0.1879	3.189	1.056	4.245	4.189	16.9	0.5	22.05
18.66	18.82	690	97	-0.06	0.1882	3.188	1.056	4.244	4.188	16.9	0.5	22.06
10.70	18.60	600	37	-0.06	0.1887	3.183	1,056	4,230	4.185	16.9	0.5	22.07
10.73	10.07	600	37	-0.06	0.1007	3,100	1,056	9.292	4.100	10.9	0.5	22.00
18.75	18.90	689	97	-0.06	0.1890	3.181	1.056	4.237	4.181	16.9	0.5	22.08
18.78	18.92	689	36	-0.05	0.1892	3,180	1.055	4,233	4.180	16.9	0.5	22.09
10.01	18.90	600	37	-0.06	0.1895	3.178	1,056	4,239	4.178	16.9	0.5	22.10
10.05	10.00	600	37	-0.05	0.1000	3.178	1.055	4,233	4.178	16.9	0.5	22.00
18.88	19.08	6.98	20	-0.05	0.1908	3,171	1.053	4,230	4.171	16.9	0.5	22.11
19.05	10.05	6.00		-0.05	0.1005	3,175	1.052	4,000	4.175	16.0	0.5	22.12
18.03	19.08	690	20	-0.05	0.1908	3,173	1.053	4.227	4.173	16.0	0.5	22.12
18.06	19.10	6.99	20	-0.05	0.1950	3,168	1.053	4 221	4.168	16.0	0.5	22.13
18.98	10.12	6.00	98	-0.05	0.1912	3,172	1.053	4 225	A 172	16.9	0.5	22.14
19.01	10.15	6.92	98	-0.05	0.1915	3.165	1.053	4.218	4.165	17.0	0.4	22.16
19.03	10.17	6.98	98	-0.05	0.1917	3 164	1.053	4.217	4 164	12.0	0.4	22.17
19.05	19.30	6.98	98	-0.05	0.1920	3,163	1.053	4.216	4 163	17.0	0.4	22.17
19.08	19.22	687	98	-0.05	0.1922	3,157	1.053	4,210	4.157	17.0	0.4	22.18
19.11	19.25	688	28	-0.05	0.1925	3,161	1.053	4,214	4.161	17.0	0.4	22.19
19.13	19.27	688	98	-0.05	0.1927	3,160	1.053	4,213	4.160	17.0	0.4	22.19
19.16	19.30	688	98	-0.05	0.1930	3,159	1.058	4.212	4 159	17.0	0.4	22.20
19.18	19.32	688	98	-0.05	0.1932	3,158	1.053	4.211	4.158	17.0	0.4	22.21
19.21	19.35	688	98	-0.05	0.1935	3,157	1.053	4,210	4.157	17.0	0.4	22.22
19.23	19.37	687	98	-0.05	0.1937	3,151	1.053	4,204	4.151	17.0	0.4	22.22
19.26	19.40	688	98	-0.05	0.1940	3.155	1.053	4,208	4.155	17.0	0.4	22.23
19.28	19.42	688	98	-0.05	0.1942	3.154	1.053	4.207	4.154	17.0	0.4	22.24
19.31	19.45	688	98	-0.05	0.1945	3.153	1.053	4,206	4.153	17.0	0.4	22.24
19.34	19.48	689	98	-0.05	0.1948	3.156	1.053	4.209	4.156	17.0	0.4	22.25
19.37	19.51	690	98	-0.05	0.1951	3.160	1.053	4.213	4.160	17.0	0.4	22.26
19.39	19.54	690	98	-0.05	0.1954	3.159	1.053	4.212	4.159	17.0	0.4	22.27
19.42	19.57	690	98	-0.05	0.1957	3.157	1.050	4.208	4.157	17.0	0.4	22.28
19.45	19.60	690	98	-0.05	0.1960	3.156	1.050	4.206	4.156	17.0	0.4	22.28
19.47	19.62	691	98	-0.05	0.1962	3.160	1.053	4.213	4.160	17.0	0.4	22.29
19.50	19.65	691	98	-0.05	0.1965	3.159	1.050	4.209	4.159	17.0	0.4	22.30
19.53	19.68	692	98	-0.05	0.1968	3.162	1.050	4.213	4.162	17.0	0.4	22.31
19.56	19.71	692	98	-0.05	0.1971	3.161	1.050	4.211	4.161	17.0	0.4	22.31
19.59	19.74	652	98	-0.05	0.1974	3.160	1.050	4.210	4.160	17.0	0.4	22.32
19.62	19.76	693	98	-0.05	0.1976	3.163	1.050	4.214	4.163	17.0	0.4	22.33
19.64	19.79	693	98	-0.05	0.1979	3.163	1.050	4.213	4.163	17.0	0.4	22.34
19.67	19.82	694	98	-0.05	0.1982	3.166	1.050	4.216	4.166	17.0	0.4	22.34
19.70	19.84	695	98	-0.05	0.1984	3.169	1.050	4.220	4.169	17.0	0.4	22.35
19.72	19.87	695	98	-0.05	0.1987	3.168	1.050	4.218	4.168	17.0	0.4	22.36
19.75	19.90	696	98	-0.05	0.1990	3.172	1.050	4.222	4.172	17.0	0.4	22.37
19.78	19.93	696	58	-0.05	0.1993	3.171	1.050	4.221	4.171	17.0	0.4	22.38
19.81	19.96	696	98	-0.05	0.1996	3.169	1.050	4.220	4.169	17.0	0.4	22.39
19.83	19.96	696	36	-0.05	0.1998	3.169	1.050	4.219	4.169	17.0	0.4	22.39
19.86	20001	600	30	-0.05	0.2001	3.157	1.050	9.218	4.167	17.0	U.A	22,40
19,89	20.04	696	36	-0.05	0.2004	3.166	1.050	4.215	4.166	17.0	0.4	22.A1
19.92	20.07	607	36	-0.05	0.2007	3.170	1.050	4.220	4.170	17.0	0.4	22.A2
19.95	20.10	600	20	-0.05	0.2010	3,108	1,050	4,219	4,166	17.0	0.4	22.42
13.96	20.15	600	20	-0.05	0.2013	3.172	1.050	9.222	-112	110	0.4	22.43
	Deferre			Incremente	E CAPE OF	Estuarto		61	11	Lecture	Cambio	
Deformació	Uniteda	Celda	Presión de	demonst	Deform.	Desidenter	Herthro	Dection	Total	harris	unhorses	Area
n (mm)	Children a	Carga N	poros (kPa)	(had/am2)	Unitaria	(hat/m)	(hel/mo	Bud (ma)	(hallow?)	(um)	(m)	corregida
	*			(up/cm)	0.0000	(kg/cm/)	(kgt/cm)	(kgr/cm)	(sgr/cm)	(cm)	(cm)	
0.00	0.00	0	39	0.00	0.0000	0.000	2,000	2,000	2000	11.9	0.000	17.14
0.05	0.05	46	101	0.02	0.0005	0.274	1.963	2.257	2,274	11.9	0.000	17.14
0.05	0.03	57	105	0.05	0.0000	0.339	1.969	2,308	2.339	11.9	0.000	17.15
0.07	0.07		104	0.05	0.0000	0.390	1,000	2.351	2.390	11.9	0.000	17.15
0.09	0.09	76	106	0.07	0,0009	0.452	1.933	2.365	2432	11.9	0.000	17.15

	Deferm			Incremento		Enfuerzo	13	s'1	<b>s1</b>	Lecture	Gambio	
Deformació	Unitaria	Celda	Presión de	deporos	Deform.	Desviador	Efectivo	Efectivo	Total	bureta	volumen	Area
n (mm)	×	Carga N	pords (xina)	(kgf/cm²)	Unicaria	(kgf/cm²)	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(cm³)	(cm³)	corregios
0.12	0.12	84	108	0.08	0.0012	0.499	1.916	2.415	2.499	12.0	-0.100	17.17
0.14	0.14	92	110	0.10	0.0014	0.546	1.900	2.446	2.546	12.0	-0.100	17.17
0.17	0.17	98	111	0.12	0.0017	0.582	1.883	2,465	2.582	12.0	-0.100	17.18
0.19	0.19	113	115	0.15	0.0022	0.629	1.850	2,495	2.629	12.0	-0.100	17.18
0.24	0.24	119	116	0.16	0.0024	0.705	1.836	2.541	2.705	12.1	-0.200	17.20
0.27	0.27	126	118	0.18	0.0027	0.747	1.819	2.565	2.747	12.1	-0.200	17.20
0.29	0.29	132	119	0.20	0.0029	0.782	1.805	2.587	2.782	12.1	-0.200	17.21
0.32	0.32	137	120	0.21	0.0032	0.846	1.791	2.601	2.810	12.3	-0.400	17.25
0.37	0.37	148	123	0.24	0.0037	0.875	1.763	2.638	2.875	12.3	-0.400	17.24
0.39	0.39	155	125	0.25	0.0039	0.916	1.749	2.665	2.916	12.3	-0.400	17.24
0.42	0.42	161	126	0.26	0.0042	0.951	1.735	2.687	2.951	12.3	-0.400	17.25
0.45	0.45	165	127	0.28	0.0045	0.975	1.724	2.699	2.975	12.3	-0.400	17.25
0.47	0.47	171	128	0.29	0.0047	1.010	1.710	2.720	3.010	12.3	-0.400	17.26
0.49	0.49	177	130	0.30	0.0049	1.045	1.699	2.744	3.045	12.3	-0.400	17.26
0.52	0.52	182	131	0.31	0.0052	1.073	1.685	2.758	3.073	12.6	-0.700	17.30
0.54	0.54	187	132	0.32	0.0054	1.102	1.677	2.779	3.102	12.6	-0.700	17.30
0.57	0.57	192	133	0.33	0.0057	1.131	1.666	2.797	3.131	12.6	-0.700	17.31
0.59	0.59	196	134	0.35	0.0059	1.154	1.654	2.809	3.154	12.6	-0.700	17.31
0.61	0.61	202	135	0.35	0.0061	1.189	1.646	2.835	3.189	12.6	-0.700	17.31
0.64	0.64	206	136	0.37	0.0064	1.213	1.635	2.847	3.213	12.6	-0.700	17.32
0.67	0.67	211	137	0.37	0.0067	1.242	1.627	2.868	3.242	12.6	-0.700	17.32
0.68	0.68	216	138	0.38	0.0068	1.271	1.618	2.889	3.271	12.6	-0.700	17.33
0.71	0.71	220	139	0.39	0.0071	1.294	1.610	2.904	3.294	12.6	-0.700	17.33
0.73	0.73	225	139	0.40	0.0073	1.323	1.601	2.925	3.323	12.6	-0.700	17.33
0.75	0.75	229	140	0.41	0.0075	1.346	1.593	2.939	3.346	12.6	-0.700	17.34
0.78	0.78	234	141	0.42	0.0078	1.375	1.585	2.960	3.375	12.6	-0.700	17.34
0.81	0.81	239	142	0.42	0.0081	1.404	1.579	2.984	3.404	12.6	-0.700	17.35
0.83	0.83	248	142	0.43	0.0083	1.428	1.571	2.998	3.428	12.6	-0.700	17.35
0.85	0.85	247	143	0.43	0.0085	1.451	1.565	3.016	3.451	12.6	-0.700	17.36
0.88	0.88	252	144	0.44	0.0088	1.480	1.560	3.039	3.480	12.6	-0.700	17.36
0.91	0.91	256	144	0.45	0.0091	1.503	1.554	3.057	3.503	12.6	-0.700	17.36
0.95	0.95	200	145	0.45	0.0095	1.525	1.540	3,072	3.520	12.6	-0.700	17.37
0.96	0.96	209	145	0.46	0.0096	1.549	1.543	3.092	3.599	12.6	-0.700	17.37
0.98	0.99	256	146	0.46	0.0099	1.572	1.537	3.109	3.572	12.6	-0.700	17.38
1.09	1.04	272	140	0.47	0.0104	1.000	1,532	3.140	3,590	12.5	-0.000	17.07
1.00	1.04	2/0	147	0.49	0.0106	1.019	1,529	3.140	3.613	12.5	-0.000	17.30
1.08	1.06	280	148	0.48	0.0108	1.042	1.525	3.100	3.042	12.5	-0.600	17.30
1.11	1.11	268	148	0.48	0.0111	1.688	1.515	3 208	3.688	12.8	-0.600	17.90
1.18	1.13	291	149	0.49	0.0119	1.205	1.509	3.215	3.705	12.5	-0.600	17.99
1.16	1.16	295	149	0.49	0.0116	1.728	1.507	3.235	3,728	12.5	-0.600	17.40
1.18	1.18	299	149	0.50	0.0118	1,751	1.504	3.255	3,751	12.5	-0.600	17.40
1.21	1.21	303	149	0.50	0.0121	1,774	1.501	3,276	3,774	12.5	-0.600	17.41
1.23	1.23	307	150	0.50	0.0123	1.797	1.496	3.293	3,797	12.5	-0.600	17.41
1.26	1.27	310	150	0.51	0.0127	1.814	1,493	3.307	3.814	12.5	-0.600	17.42
1.29	1.29	314	151	0.51	0.0129	1.837	1,490	3.327	3.837	12.5	-0.600	17.42
1.31	1.32	318	151	0.51	0.0132	1.860	1.487	3.347	3.860	12.5	-0.600	17.43
1.34	1.34	321	151	0.51	0.0134	1.877	1.487	3.365	3.877	12.5	-0.600	17.43
1.36	1.37	324	151	0.52	0.0137	1.894	1.484	3.379	3.894	12.5	-0.600	17.43
1.39	1.39	328	152	0.52	0.0139	1.917	1.479	3.396	3.917	12.5	-0.600	17.44
1.42	1.42	332	152	0.52	0.0142	1.940	1.476	3.416	3.940	12.5	-0.600	17.44
1.44	1.44	335	152	0.52	0.0144	1.957	1.476	3.433	3.957	12.5	-0.600	17.45
1.47	1.47	339	152	0.53	0.0147	1.980	1.473	3,453	3.980	12.5	-0.600	17.45
1.49	1.50	341	152	0.53	0.0150	1.991	1.473	3.464	3.991	12.5	-0.600	17.46
1.52	1.52	345	152	0.53	0.0152	2.015	1.470	3.486	4.015	12.4	-0.500	17.45
1.55	1.55	348	153	0.53	0.0155	2.082	1.468	3.500	4.032	12.4	-0.500	17.46
1.57	1.57	351	153	0.54	0.0157	2.049	1.465	3.514	4.049	12.4	-0.500	17.46
1.60	1.60	355	153	0.54	0.0160	2.072	1.465	3.537	4.072	12.4	-0.500	17.A7

Deformació n (mm)	Deform. Unitaria N	Celda Carga N	Presión de poros (kPa)	Incremento deporos (kgf/cm²)	Deform. Unitaria	Esfuerzo Desviador (kgf/cm²)	s'3 Efectivo (kgt/cm <sup>2</sup> )	s'1 Efectivo (kgf/cm²)	s1 Total (kgf/cm <sup>2</sup> )	Lectura bureta (cm³)	Cambio volumen (cm <sup>1</sup> )	Area corregida
1.62	1.62	358	153	0.54	0.0162	2.089	1.462	3,551	4,089	12.4	-0.500	17.47
1.65	1.65	361	153	0.54	0.0165	2,106	1,462	3,568	4.106	12.4	-0.500	17,48
1.68	1.68	364	154	0.54	0.0168	2,123	1.459	3,582	4.123	12.4	-0.500	17,48
1.70	1.70	367	154	0.54	0.0170	2,140	1.459	3,599	4.140	12.4	-0.500	17.48
1.73	1.73	370	154	0.54	0.0173	2,157	1.457	3.613	4.157	12.4	-0.500	17.49
1.75	1.75	374	154	0.54	0.0175	2,179	1.457	3.636	4.179	12.4	-0.500	17.49
1.78	1.78	376	154	0.54	0.0178	2 190	1.457	3.647	4 190	12.4	-0.500	17.50
1.81	1.81	379	154	0.55	0.0181	2,207	1.454	3.661	4.207	12.4	-0.500	17.50
1.83	1.83	382	154	0.55	0.0183	2 224	1.454	3.678	4 224	12.4	-0.500	17.51
1.85	1.85	3.05	154	0.55	0.0185	2 341	1.454	3,695	4 241	12.4	-0.500	17.51
1.88	1.88	388	154	0.55	0.0188	2.258	1.454	3,712	4.258	12.4	-0.500	17.52
1.90	1.90	390	154	0.55	0.0190	2 269	1.454	3,723	4 269	12.4	-0.500	17.52
1.08	1.08	304	154	0.55	0.0198	2 292	1.454	3 745	4 202	12.4	-0.500	17.53
1.96	1.96	396	154	0.55	0.0196	2,303	1.451	3,754	4,903	12.4	-0.500	17.53
1.90	1.00	300	154	0.55	0.0199	2 319	1.451	3,730	4 910	12.4	-0.500	17.54
2.01	2.01	400	154	0.55	0.0201	2,880	1.451	3,200	4 990	12.2	-0.500	12.83
2.04	2.04	404	154	0.55	0.0204	2 350	1.451	3,801	4 950	12.2	-0.300	17.52
2.07	2.07	407	154	0.55	0.0207	2.367	1.451	3,818	4 967	12.2	-0.800	17.52
2.00	3.00	410	154	0.55	0.0000	2,007	1.451	3,020	4 994	13.3	-0.000	17.55
2.00	2.09	412	154	0.55	0.0212	2,309	1,451	3,635	4,309	12.2	-0.300	17.55
2.15	3.15	416	154	0.55	0.0015	2,457	1.451	3,040	4.417	13.3	-0.000	17.54
2.13	2.13	410	154	0.55	0.0013	2,417	1,451	3,000	4,427	12.2	-0.300	17.54
2.17	2.17	417	154	0.55	0.0217	2,422	1,451	3,6/3	4.422	12.2	-0.300	17.55
2.20	2.20	420	154	0.55	0.0220	2,439	1,451	3,650	4,439	12.2	-0.300	17.35
2.23	2.23	9420	159	0.55	0.0005	2,450	1,451	3.907	4.400	12.2	-0.300	17.50
2.25	2.25	425	154	0.55	0.0225	2,467	1.451	3.918	4.467	12.2	-0.300	17.56
2.20	2.20	420	154	0.55	0.0228	2.404	1,451	3,339	4,404	12.2	-0.300	17.57
2.31	2.31	430	154	0.55	0.0251	2,499	1.451	3.945	4,494	12.2	-0.300	17.57
2.33	2.33	432	154	0.55	0.0233	2,505	1.451	3.956	4.505	12.2	-0.300	17.58
2.30	2.30	430	159	0.55	0.0000	2.5/2	1,451	3,373	4.522	12.2	-0.300	17.50
2.38	2.36	436	154	0.55	0.0238	2.539	1.454	3.995	4.539	12.2	-0.300	17.59
2,41	2.41	440	154	0.55	0.0241	2.550	1,459	4,004	4.550	12.2	-0.300	17.59
2,44	2,99	140	159	0.55	0.0044	2.561	1,451	4,012	4.301	12.2	-0.300	17.00
2.46	2,46	442	154	0.55	0.0246	2.560	1.451	4,011	4.500	12.2	-0.300	17.60
2,49	2.49	444	154	0.55	0.0249	2.571	1.454	4.025	4.571	12.2	-0.300	17.60
2.51	2.52	440	159	0.55	0.0252	2.586	1,459	040.0	4.500	11.9	0.000	17.56
2.54	2.54	448	154	0.55	0.0254	2,597	1.454	4.051	4.597	11.9	0.000	17.58
2.57	2.57	450	159	0.55	0.0257	2.606	1,459	4.052	4.000	11.9	0.000	17.59
2.59	2.60	452	154	0.55	0.0260	2.619	1.454	4,075	4.619	11.9	0.000	17.59
2.63	2.63	454	154	0.55	0.0263	2.629	1.454	4,083	4.629	11.9	0.000	17.60
2.65	2.65	457	154	0.55	0.0265	2.646	1,454	4.100	4.646	11.9	0.000	17.60
2.68	2.68	458	154	0.55	0.0268	2.651	1.454	4.105	4.651	11.9	0.000	17.61
2.71	2.71	461	154	0.55	0.0271	2.658	1.454	4.122	4.668	11.9	0.000	17.61
2.73	2.73	464	154	0.55	0.0273	2.685	1.454	4.138	4.685	11.9	0.000	17.62
2.76	2.76	465	154	0.54	0.0276	2.690	1.457	4.146	4.690	11.9	0.000	17.62
2.79	2.79	468	154	0.55	0.0279	2,706	1.454	4.160	4.706	11.9	0.000	17.63
2.81	2.81	469	154	0.55	0.0281	2,711	1.454	4.165	4.711	11.9	0.000	17.63
2.84	2.85	472	154	0.54	0.0285	2.728	1.457	4.184	4.728	11.9	0.000	17.64
2.87	2.87	475	154	0.54	0.0287	2,744	1.457	4.201	4.744	11.9	0.000	17.64
2.89	2.90	476	154	0.54	0.0290	2,749	1.457	4.206	4.749	11.9	0.000	17.65
2.92	2.93	479	154	0.54	0.0298	2,766	1.457	4.222	4.766	11.9	0.000	17.65
2.95	2.96	481	154	0.54	0.0296	2.777	1.459	4.236	4.777	11.9	0.000	17.66
2.97	2.98	483	154	0.54	0.0296	2,787	1.459	4.247	4.787	11.9	0.000	17.66
3.00	3.01	486	153	0.54	0.0301	2.809	1.462	4.271	4.809	11.6	0.300	17.64
3.02	3.03	488	153	0.54	0.0303	2.820	1.462	4.282	4.820	11.6	0.300	17.64
3.05	3.06	490	153	0.54	0.0306	2.830	1.462	4.292	4.830	11.6	0.300	17.65
3.08	3.08	494	153	0.54	0.0308	2.853	1.465	4.318	4.853	11.6	0.300	17.65
3.10	3.11	496	153	0.54	0.0311	2.864	1.465	4.328	4.864	11.6	0.300	17.66
3.13	3.13	499	153	0.54	0.0313	2.880	1.465	4.345	4.880	11.6	0.300	17.66

Deformació n (mm)	Deform. Unitaria	Gelda Cerra N	Presión de	Incremento deporos	Deform.	Esfuerzo Desviador	s'3 Efectivo	s'1 Efectivo	s1 Total	Lectura bureta	Cambio volumen	Area
	*		per ce (ce ef	(kgt/cm <sup>*</sup> )		(kgf/cm <sup>*</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(cm³)	(cm <sup>2</sup> )	
3.15	3.16	501	153	0.54	0.0316	2.891	1.465	4.356	4.891	11.6	0.300	17.67
3.19	3.19	508	153	0.53	0.0319	2.901	1.468	4.369	4.901	11.6	0.300	17.67
3.21	3.21	506	153	0.53	0.0321	2.918	1.468	4.386	4.918	11.6	0.300	17.68
3.24	3.24	508	153	0.53	0.0324	2.929	1.468	4.396	4.929	11.6	0.300	17.68
3.26	3.26	510	152	0.53	0.0326	2.940	1.470	4,410	4.940	11.6	0.300	17.69
3.29	3.29	513	152	0.53	0.0329	2,956	1,470	4,426	4.956	11.6	0.300	17.69
3.31	3,31	515	152	0.53	0.0331	2.967	1,470	4,437	4.967	11.6	0.300	17.69
3.34	3.34	518	152	0.53	0.0334	2,983	1.473	4,456	4.983	11.6	0.300	17.70
3.37	3,37	520	152	0.52	0.0337	2,994	1,476	4,470	4,994	11.6	0.300	17.71
3.39	3,39	523	152	0.53	0.0339	3,010	1.473	4,484	5.010	11.6	0.300	17.71
3.42	3.42	525	152	0.52	0.0342	3.021	1.476	4,497	5.021	11.6	0.300	17.71
3.44	3,44	527	152	0.52	0.0344	3.082	1,476	4,508	5.032	11.6	0.300	17.72
3.47	3.47	530	152	0.52	0.0347	3.048	1.476	4.524	5,048	11.6	0.300	17,72
3.50	3.50	532	152	0.52	0.0350	3.062	1,479	4.541	5.062	11.4	0.500	17.71
3.52	3,52	535	152	0.52	0.0352	3.079	1,479	4.558	5.079	11.4	0.500	17.71
3.55	3.55	537	151	0.52	0.0355	3,089	1.482	4.571	5,089	11.4	0.500	17.72
3.58	3.58	539	151	0.52	0.0358	3.100	1.482	4.582	5.100	11.4	0.500	17.72
3.61	3.61	542	151	0.52	0.0361	3.116	1.482	4,598	5.116	11.4	0.500	17.73
3.63	3.63	544	151	0.52	0.0363	3,127	1.484	4.612	5.127	11.4	0.500	17.73
3.66	3.66	546	151	0.52	0.0366	3.138	1.484	4.622	5.138	11.4	0.500	17.74
3.68	3.69	547	151	0.52	0.0369	3,143	1.484	4.627	5.143	11.4	0.500	17.74
3.71	3.72	550	151	0.51	0.0372	3,159	1.487	4.646	5,159	11.4	0.500	17.75
3.74	3,74	551	151	0.51	0.0374	3,164	1,490	4.654	5.164	11.4	0.500	17.75
3.76	3,77	554	151	0.51	0.0377	3,180	1.487	4.667	5,180	11.4	0.500	17,76
3,79	3.80	556	151	0.51	0.0380	3,191	1.490	4.681	5,191	11.4	0.500	17.76
3.81	3.82	558	151	0.51	0.0382	3,201	1,490	4,691	5.201	11.4	0.500	17.77
3.84	3.85	560	150	0.51	0.0385	3,212	1.493	4,705	5.212	11.4	0.500	17.77
3.87	3.88	562	150	0.51	0.0388	3,222	1.493	4,715	5.222	11.4	0.500	17,78
3.90	3.90	565	150	0.50	0.0390	3.239	1,496	4,734	5.239	11.4	0.500	17.78
3.92	3.93	567	150	0.50	0.0393	3.249	1.496	4,745	5.249	11.4	0.500	17.79
3.95	3.95	569	150	0.50	0.0395	3,260	1,496	4,755	5,260	11.4	0.500	17,79
3.98	3.98	571	150	0.50	0.0398	3.270	1.498	4,769	5.270	11.4	0.500	17.80
4.01	4.01	573	150	0.50	0.0401	3.284	1,498	4,783	5.284	11.2	0.700	17.78
4.03	4.03	575	150	0.50	0.0403	3,295	1,498	4,794	5.295	11.2	0.700	17,79
4.07	4.07	577	150	0.50	0.0407	3,305	1.498	4,804	5.305	11.2	0.700	17.79
4.09	4.09	579	149	0.50	0.0409	3.316	1.501	4.817	5.316	11.2	0.700	17.80
4.12	4.12	581	149	0.50	0.0412	3.327	1.501	4.828	5.327	11.2	0.700	17.80
4.14	4.14	583	149	0.50	0.0414	3.337	1.504	4.841	5.337	11.2	0.700	17.81
4.17	4.17	584	149	0.50	0.0417	3.342	1.504	4,846	5.342	11.2	0.700	17.81
4.19	4.20	587	149	0.49	0.0420	3.358	1.507	4,865	5.358	11.2	0.700	17.82
4.22	4.22	589	149	0.49	0.0422	3,369	1.507	4.876	5.369	11.2	0.700	17.82
4.25	4.25	591	149	0.49	0.0425	3,379	1.507	4,886	5.379	11.2	0.700	17.83
4.27	4.28	598	149	0.49	0.0428	3,390	1.509	4,899	5.390	11.2	0.700	17.83
4.30	4,30	595	149	0.49	0.0430	3,400	1.509	4,910	5,400	11.2	0.700	17.84
4.32	4.32	598	148	0.49	0.0432	3,417	1.512	4.929	5.417	11.2	0.700	17.84
4.35	4.35	599	148	0.49	0.0435	3.421	1.512	4.934	5.421	11.2	0.700	17.85
4.37	4,38	601	148	0.48	0.0438	3,432	1.515	4,947	5.432	11.2	0.700	17.85
4.40	4.41	604	148	0.48	0.0441	3,448	1.515	4,963	5.448	11.2	0.700	17.86
4.42	4.43	606	148	0.48	0.0443	3,458	1.518	4.976	5.458	11.2	0.700	17.86
4.45	4.46	608	148	0.48	0.0446	3,469	1.518	4,987	5.469	11.2	0.700	17.87
4.48	4.49	609	148	0.48	0.0449	3,473	1.518	4,991	5.473	11.2	0.700	17.87
4.51	4.51	611	147	0.48	0.0451	3,486	1.521	5.006	5.486	11.1	0.800	17.87
4.53	4.54	613	147	0.48	0.0454	3,496	1.521	5.017	5.496	11.1	0.800	17.87
4.56	4.57	615	147	0.48	0.0457	3.507	1.523	5.030	5.507	11.1	0.800	17.88
4.58	4.59	617	147	0.48	0.0459	3.517	1.523	5.041	5.517	11.1	0.800	17.88
4.61	4.62	619	147	0.47	0.0462	3.528	1.526	5.054	5.528	11.1	0.800	17.89
4.63	4.64	620	147	0.47	0.0464	3.533	1.526	5.059	5.533	11.1	0.800	17.89
4.67	4.67	623	147	0.47	0.0467	3.548	1.529	5.077	5.548	11.1	0.800	17.90
4.69	4.69	625	147	0.47	0.0469	3.559	1.529	5.088	5.559	11.1	0.800	17.90

Deformació n (mm)	Deform. Unitaria	Celda Cerra N	Presión de porce (kPa)	Incremento deporos	Deform.	Esfuerzo Desviador	s'3 Efectivo	s'1 Efectivo	s1 Total	Lectura bureta	Cambio volumen	Area
	*		bound for all	(kgf/cm²)		(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm²)	(cm³)	(cm <sup>3</sup> )	con region
4.72	4.72	626	146	0.47	0.0472	3.564	1.532	5.095	5.564	11.1	0.800	17.91
4.74	4.74	628	146	0.47	0.0474	3.574	1.532	5.106	5.574	11.1	0.800	17.91
4.71	4.72	630	146	0.47	0.0472	3.587	1.532	5.118	5.587	11.1	0.800	17.91
4,79	4,80	632	146	0.46	0.0480	3,595	1.537	5,132	5.595	11.1	0.800	17.92
4.82	4.82	634	146	0.46	0.0482	3,605	1.537	5.143	5.605	11.1	0.800	17.93
4.85	4.85	635	146	0.46	0.0485	3,610	1.537	5,147	5,610	11.1	0.800	17.93
4.87	4.88	638	145	0.46	0.0488	3,626	1.540	5,166	5.626	11.1	0.800	17.94
4.90	4,90	640	145	0.46	0.0490	3.636	1.540	5,176	5.636	11.1	0.800	17.94
4.92	4.93	642	145	0.46	0.0493	3.647	1.543	5,190	5.647	11.1	0.800	17.95
4.95	4.95	644	145	0.46	0.0495	3,657	1543	5 200	5.657	11.1	0.800	17.95
4.97	4.98	645	145	0.45	0.0498	3.662	1.546	5,208	5.662	11.1	0.800	17.95
5.00	5.00	647	145	0.45	0.0500	3,634	1546	5 220	5.624	11.0	0.900	17.95
5.02	5.03	650	145	0.45	0.0508	3,600	1 548	5.230	5.000	11.0	0.900	17.05
5.04	5.05	650	145	0.45	0.0505	3,000	1 548	5.239	5.005	11.0	0.900	17.95
5.07	5.08	653	144	0.45	0.0508	3,376	1 551	8.957	5.305	11.0	0.900	17.06
5.10	5.10	655	144	0.45	0.0510	2.750	1.551	5.267	5.700	11.0	0.000	17.00
5.10	5.10	600	144	0.45	0.0518	3,710	1,551	5.207	5.710	11.0	0.900	17.97
5.15	5.10	650	144	0.45	0.0516	3,720	1.554	5.200	5.720	11.0	0.000	17.00
5.15	5.10	600	144	0.45	0.0510	3.730	1.554	5.230	5.739	11.0	0.900	17.99
5.17	5.10	100	144	0.45	0.0518	3.797	1,559	5.301	5.797	11.0	0.900	17.90
5.20	5.22	004	144	0.44	0.0522	3,751	1.557	5,300	5,755	11.0	0.000	17.00
5.22	5.23	009	199	0.44	0.0525	3.752	1.357	5.319	5.762	11.0	0.900	17.39
5.25	5.20	000	144	0.44	0.0525	3.772	1.557	5.329	5.772	11.0	0.900	18.00
5.47	5.28	000	744	0.44	0.0528	3.763	1.500	5.392	5.765	11.0	0.900	18.00
5.29	5.30	670	199	0.44	0.0530	3.793	1.500	5.353	5.795	11.0	0.900	18.01
5.32	5.33	672	143	0.44	0.0533	3.803	1.562	5.366	5.805	11.0	0.900	18.01
5.35	5.30	6,74	145	0.44	0.0536	3.613	1.562	5.376	5.813	11.0	0.900	18.02
5.37	5.36	6/5	145	0.43	0.0538	3.618	1.565	5.383	5.818	11.0	0.900	18.02
5.39	5.40	677	143	0.43	0.0540	3.829	1.565	5.394	5.829	11.0	0.900	18.03
5.42	5.43	6/9	145	0.43	0.0545	3.639	1,505	5,409	5.839	11.0	0.900	18.05
5.44	5.45	681	143	0.43	0.0545	3.849	1.568	5.417	5.849	11.0	0.900	18.04
5.47	5.48	683	142	0.43	0.0548	3.859	1.571	5.430	5.859	11.0	0.900	18.04
5.50	5.51	685	142	0.43	0.0551	3.871	15/1	5.442	5.871	10.9	1.000	18.04
5.52	5.53	686	142	0.43	0.0353	3.876	1.574	5,450	5.876	10.9	1.000	18.04
5.55	5.56	688	142	0.43	0.0556	3.886	1.574	5.460	5.886	10.9	1.000	18.05
5.57	5.58	690	142	0.42	0.0358	3.897	1.576	5.473	5.897	10.9	1.000	18.05
5.60	5.61	652	142	0.42	0.0561	3.907	1.576	5.483	5.907	10.9	1.000	18.06
5.63	5.64	694	142	0.42	0.0364	3.917	1.576	5,493	5.917	10.9	1.000	18.06
5.65	5.66	655	142	0.42	0.0566	3.922	1.579	5.501	5.922	10.9	1.000	18.07
5.67	5.68	697	141	0.42	0.0568	3.982	1.582	5.514	5.982	10.9	1.000	18.07
5.70	5.71	699	141	0.42	0.0571	3.942	1.582	5.524	5.942	10.9	1.000	18.07
5.72	5.73	700	141	0.42	0.0573	3.947	1.585	5.532	5.947	10.9	1.000	18.08
5.75	5.75	703	141	0.42	0.0575	3.963	1.585	5.548	5.963	10.9	1.000	18.08
5.78	5.78	705	141	0.42	0.0578	3.973	1.585	5.558	5.973	10.9	1.000	18.09
5.80	5.81	706	141	0.41	0.0581	3.977	1.588	5.565	5.977	10.9	1.000	18.09
5.83	5.83	709	140	0.41	0.0583	3.993	1.590	5.584	5.993	10.9	1.000	18.10
5.85	5.86	710	140	0.41	0.0586	3.998	1.590	5.588	5.998	10.9	1.000	18.10
5.88	5.88	712	140	0.41	0.0588	4.008	1.593	5.601	6.008	10.9	1.000	18.11
5.90	5.91	714	140	0.41	0.0591	4.018	1.593	5.611	6.018	10.9	1.000	18.11
5.93	5.94	716	140	0.41	0.0594	4.028	1.593	5.621	6.028	10.9	1.000	18.12
5.95	5.96	718	140	0.40	0.0596	4.038	1.596	5.634	6.038	10.9	1.000	18.12
5.98	5.98	719	140	0.40	0.0598	4.043	1.599	5.642	6.043	10.9	1.000	18.13
6.00	6.01	721	140	0.40	0.0601	4.055	1.599	5.654	6.055	10.8	1.100	18.12
6.03	6.03	723	140	0.40	0.0603	4.066	1.599	5.664	6.066	10.8	1.100	18.13
6.06	6.06	725	139	0.40	0.0606	4.076	1.601	5.677	6.076	10.8	1.100	18.13
6.08	6.08	727	139	0.40	0.0608	4.086	1.601	5.687	6.086	10.8	1.100	18.14
6.11	6.11	728	139	0.40	0.0611	4.090	1.604	5.695	6.090	10.8	1.100	18.14
6.13	6.14	730	139	0.40	0.0614	4.100	1.604	5.705	6.100	10.8	1.100	18.15
6.16	6.16	732	139	0.40	0.0616	4.111	1.604	5.715	6.111	10.8	1.100	18.15

I (per)         S.         Deg N         per (per)         Unitaria         per (per)         per (per)         per (per)         per (per )         p	Deformació	Deform. Unitaria	Celda	Presión de	Incremento deporos	Deform.	Esfuerzo Desviador	s'3 Efectivo	s'1 Efectivo	s1 Total	Lectura	Cambio volumen	Area
6.13         6.13         7.23         1.33         0.39         6.002         4.115         1.00         1.10         1.10         1.10           6.11         6.22         726         139         0.39         0.0024         4.125         1.00         1.10         1.10         1.110           6.26         727         73         139         0.39         0.0024         4.134         1.00         1.110         1.110           6.16         6.27         779         138         0.39         0.0024         4.134         1.03         1.110         1.111           6.16         6.27         794         134         0.39         0.0024         4.141         1.03         1.100         1.111           6.41         1.42         1.43         0.34         0.0024         4.134         1.03         1.100         1.113           6.43         740         1.38         0.38         0.0024         4.135         1.641         1.03         1.100         1.113           6.44         748         1.38         0.38         0.064         4.121         1.641         1.03         1.100         1.120         1.121           6.44         6.43         <	n (mm)	*	Carga N	poros (kPa)	(kgl/cm²)	Unitaria	(kgf/cm²)	(kat/cm <sup>2</sup> )	(kurf/cm <sup>2</sup> )	(kat/cm <sup>2</sup> )	(cm³)	(cm³)	corregida
bit         cost         cost         cost         cost         fib         fib<	6.18	6.10	798	190	0.99	0.0619	4.115	1.607	5 722	6.115	10.8	1.100	18.16
123         6.34         7.36         139         0.37         0.007         4.130         1.607         5.77         6.130         1.01         1.100         1.117           6.26         6.27         7.99         1.18         0.037         6.130         1.021         1.100         1.117           6.21         6.30         7.99         1.18         0.037         6.031         1.031         1.100         1.118           6.31         6.37         7.40         1.18         0.131         0.033         0.000         4.144         1.031         1.100         1.118           6.43         6.43         7.40         1.13         0.034         0.0001         4.113         1.101         1.100         1.119           6.44         6.43         7.44         1.133         0.34         0.0604         4.131         1.115         1.101         1.120         1.111         1.122         1.111         1.121         1.111         1.112         1.111         1.111         1.111         1.111         1.111         1.111         1.111         1.111         1.111         1.111         1.111         1.111         1.111         1.111         1.1111         1.111         1.111 <th< td=""><td>6.21</td><td>6.22</td><td>735</td><td>139</td><td>0.39</td><td>0.0622</td><td>4.125</td><td>1.607</td><td>5.732</td><td>6.125</td><td>10.8</td><td>1,100</td><td>18.16</td></th<>	6.21	6.22	735	139	0.39	0.0622	4.125	1.607	5.732	6.125	10.8	1,100	18.16
6.56         6.27         7.97         138         0.39         0.0800         4.514         1.00         1.344         1.01         1.100         1.111           6.31         6.32         740         138         0.39         0.0800         4.546         1.613         5.766         6.148         1.01         1.115           6.54         6.37         744         138         0.38         0.0807         4.150         1.615         5.774         6.168         1.00         1.110           6.40         6.41         746         138         0.38         0.0664         4.127         1.613         1.01         1.100         1.112           6.43         6.44         749         138         0.38         0.0664         4.127         1.613         1.61         1.100         1.101         1.121           6.44         740         138         0.38         0.0664         4.121         1.611         4.512         1.01         1.100         1.112           6.44         6.46         740         138         0.38         0.0664         4.20         1.621         5.81         4.20         1.61         3.03         1.031         1.121           6.45	6.23	6.24	736	139	0.39	0.0624	4.130	1.607	5,737	6.130	10.8	1,100	18.17
6.29         6.30         7.80         138         0.39         0.0000         4.444         1.031         5.781         6.144         1.03         1.100         1.111           6.31         6.37         700         138         0.381         0.0007         4.135         5.781         6.141         1.00         1.115           6.40         6.41         764         138         0.38         0.0007         4.135         1.013         5.794         6.173         1.03         1.130           6.40         6.41         766         1.38         0.38         0.0041         4.115         1.611         5.794         6.173         1.03         1.130         1.130           6.46         6.47         796         1.38         0.38         0.0041         4.115         1.611         1.011         1.100         1.131           6.44         798         1.37         0.38         0.0964         4.210         1.621         5.61         1.00         1.132           6.43         6.43         793         1.37         0.33         0.090         4.210         1.621         5.61         1.50         1.21           6.42         6.59         791         1.37 <td>6.26</td> <td>6.27</td> <td>737</td> <td>139</td> <td>0.39</td> <td>0.0627</td> <td>4,134</td> <td>1.610</td> <td>5,744</td> <td>6.134</td> <td>10.8</td> <td>1.100</td> <td>18.17</td>	6.26	6.27	737	139	0.39	0.0627	4,134	1.610	5,744	6.134	10.8	1.100	18.17
6.31         6.32         1.36         0.39         0.0812         4.448         1.613         5.974         6.418         1.02         1.1100         1.1100           6.36         6.37         3.44         1.38         0.38         0.0817         4.159         1.615         5.774         6.159         1.02         1.1100         1.111         6.113         1.021         1.100         1.121           6.46         6.46         740         1.37         0.38         0.0681         4.206         1.621         5.417         0.101         1.1100         1.121           6.45         6.45         751         1.37         0.38         0.0681         4.226         1.621         5.847         6.206         1.026         1.820         1.823         5.847         6.236         1.026         1.820         1.823         5.847         6.236         1.	6.29	6.30	739	138	0.39	0.0630	4,144	1.613	5,756	6.144	10.8	1.100	18.18
6.58         6.57         138         0.38         0.0085         4.518         1.015         5.774         6.519         10.0         11.100         11.119           6.40         6.41         7.85         128         0.38         0.0041         4.119         1.615         5.774         6.519         10.0         11.100         11.100         11.100         11.100         11.100         11.100         11.100         11.100         11.100         11.100         11.100         11.21           6.46         6.46         740         138         0.38         0.0044         4.112         1.611         5.011         1.000         11.21           6.46         6.46         740         137         0.38         0.0044         4.121         1.612         5.61         5.65         5.65         5.65         7.81         1.77         0.38         0.0054         4.220         1.627         5.84         6.20         1.62         5.84         6.20         1.62         5.84         6.220         1.62         5.84         6.220         1.62         5.84         6.226         1.62         5.84         6.23         1.63         1.63         1.63         1.63         1.63         1.63         1	6.31	6.32	740	138	0.39	0.0632	4.148	1.613	5.761	6.148	10.8	1.100	18.18
6.46         6.47         7.44         138         0.38         0.0037         4.159         1.151         5.771         6.173         10.8         1.100         1.120           6.43         6.44         747         11.81         0.31         0.031         1.100         1.120           6.44         6.44         747         11.81         5.121         1.615         5.021         6.173         10.8         1.100         1.121           6.45         6.44         749         137         0.33         0.0444         4.121         1.611         5.127         6.106         1.100         1.127           6.53         6.54         731         137         0.33         0.0695         4.206         1.621         5.847         6.206         10.61         1.300         1.127           6.53         6.54         739         137         0.37         0.0695         4.226         1.627         5.847         6.206         10.61         13.00         1.127           6.44         6.65         739         137         0.37         0.0697         4.235         1.627         5.847         6.236         10.61         13.00         1.237           6.47 <th< td=""><td>6.34</td><td>6.35</td><td>742</td><td>138</td><td>0.38</td><td>0.0635</td><td>4.158</td><td>1.615</td><td>5.774</td><td>6.158</td><td>10.8</td><td>1.100</td><td>18.19</td></th<>	6.34	6.35	742	138	0.38	0.0635	4.158	1.615	5.774	6.158	10.8	1.100	18.19
640         641         745         138         0.38         0.0941         4.173         1.108         5.07         6.173         10.20         11.200           643         6.44         749         138         0.38         0.0944         4.135         1.611         5.071         6.135         10.20         11.200         13.21           646         6.46         749         137         0.38         0.0944         4.135         1.611         5.211         6.135         10.20         11.200         13.27           651         6.51         6.54         751         137         0.38         0.0954         4.250         1.621         5.227         6.206         10.6         1.500         11.27           6.56         6.56         754         137         0.37         0.0959         4.235         1.627         5.847         6.236         10.64         1.500         11.27           6.42         6.42         757         137         0.37         0.0959         4.235         1.627         5.847         6.238         10.61         1300         11.23           6.42         6.43         713         135         0.37         0.0970         4.235         1.	6.36	6.37	744	138	0.38	0.0637	4.169	1.615	5.784	6.169	10.8	1.100	18.19
6.43         6.43         747         138         0.38         0.044         4.152         1.618         5.803         6.112         10.3         11.00         11.27           6.46         6.46         789         137         0.38         0.0049         4.311         1.621         5.812         6.151         10.38         11.200         18.27           6.51         6.54         755         117         0.38         0.0051         4.206         1.621         5.277         6.206         10.64         1.300         18.27           6.55         6.54         754         137         0.37         0.0054         4.210         1.427         5.847         6.226         10.6         1.300         11.22           6.54         759         137         0.37         0.0062         4.235         1.621         5.874         6.225         10.6         1.300         11.23           6.54         6.647         761         136         0.37         0.0067         4.235         1.632         5.886         6.234         10.6         1.300         11.23           6.56         6.673         765         136         0.36         0.0077         4.234         1.635         <	6.40	6.41	745	138	0.38	0.0541	4.173	1.618	5.791	6.173	10.8	1.100	18.20
6.46         6.46         789         138         0.33         0.0446         4.191         1.612         5.811         6.131         10.00         11.22           6.51         6.51         751         137         0.38         0.0651         4.206         1.621         5.817         6.266         1.06         1.300         1.8.20           6.56         754         137         0.37         0.0654         4.216         1.624         5.840         6.226         1.06         1.300         1.8.21           6.59         757         137         0.37         0.0654         4.220         1.627         5.846         6.255         1.06         1.300         1.8.22           6.42         757         137         0.37         0.0664         4.255         1.525         5.876         6.235         1.06         1.300         1.8.24           6.47         761         136         0.377         0.0671         4.255         1.655         5.898         6.204         1.06         1.300         1.8.24           6.47         761         136         0.367         0.472         1.635         5.918         6.204         1.06         1.300         1.8.24	6.43	6.43	747	138	0.38	0.0543	4.183	1.618	5.801	6.183	10.8	1.100	18.21
6.48         6.49         190         137         0.38         0.084         4.191         1.621         5.812         6.18         1.300         112.0           6.51         6.51         755         137         0.38         0.0854         4.206         1.621         5.807         6.226         10.6         1.300         18.21           6.59         6.55         795         137         0.37         0.0854         4.216         1.624         5.807         6.226         10.6         1.300         18.27           6.42         6.42         797         137         0.37         0.0864         4.238         1.629         5.804         6.225         10.6         1.300         18.23           6.46         796         137         0.377         0.0667         4.235         1.632         5.804         6.224         10.6         1.300         18.23           6.47         766         136         0.37         0.0677         4.235         1.632         5.808         6.204         10.6         1.300         18.23           6.47         766         136         0.37         0.0671         4.232         1.688         5.911         6.278         10.6	6.46	6.46	749	138	0.38	0.0646	4.192	1.618	5.811	6.192	10.8	1.100	18.21
6.53         6.54         753         137         0.38         0.0851         4.206         1.621         5.807         6.226         10.6         1.300         18.21           6.58         6.59         757         137         0.37         0.0859         4.216         1.627         5.947         6.226         10.6         1.300         18.21           6.59         6.59         757         137         0.37         0.0859         4.236         1.627         5.963         6.226         10.6         1.300         18.21           6.64         6.65         799         137         0.37         0.0864         4.345         1.627         5.974         6.226         10.6         1.300         18.23           6.67         766         136         0.37         0.0874         4.235         1.635         5.886         6.234         10.6         1.300         18.23           6.76         766         136         0.36         0.0678         4.271         1.638         5.911         6.273         10.6         1.300         18.23           6.77         6.78         786         136         0.36         0.0678         4.327         1.638         5.915	6.48	6.49	749	137	0.38	0.0549	4.191	1.621	5.812	6.191	10.8	1.100	18.22
6.53         6.54         783         137         0.38         0.0654         4.216         1.627         5.840         6.216         1.02         1.327           6.52         6.55         757         137         0.37         0.0655         4.226         1.627         5.843         6.226         1.06         1.300         1.8.27           6.42         6.42         757         137         0.37         0.0664         4.235         1.627         5.844         6.235         1.06         1.300         1.8.27           6.67         761         136         0.37         0.0667         4.235         1.627         5.887         6.235         1.06         1.300         1.8.24           6.67         761         136         0.37         0.0677         4.235         1.627         5.887         6.235         1.06         1.300         1.8.24           6.77         763         136         0.37         0.0672         4.276         1.638         5.915         6.277         10.6         1.300         1.8.25           6.37         796         135         0.36         0.0664         4.272         1.604         5.916         6.130         1.601         1.300	6.51	6.51	751	137	0.38	0.0651	4.206	1.621	5.827	6.206	10.6	1.300	18.20
6.56         6.56         754         137         0.37         0.0059         4.226         1.627         5.847         6.226         1.00         1.201           6.42         6.42         757         137         0.37         0.0062         4.235         1.627         5.854         6.235         1.06         1.300         112.27           6.46         6.62         791         137         0.37         0.0067         4.235         1.622         5.854         6.235         1.06         1.300         112.27           6.47         6.67         761         136         0.37         0.0070         4.253         1.652         5.885         6.284         1.06         1.300         112.27           6.47         6.70         761         136         0.361         0.0071         4.354         1.655         5.886         6.344         1.06         1.300         112.37           6.47         761         136         0.361         0.0071         4.237         1.681         5.911         6.271         1.06         1.300         112.37           6.47         769         135         0.36         0.0064         4.320         1.640         5.920         6.311	6.53	6.54	753	137	0.38	0.0654	4.216	1.624	5.840	6.216	10.6	1.300	18.21
6.59         6.59         757         137         0.37         0.0059         4.236         1.627         5.883         6.225         10.6         1.300         11.22           6.64         6.65         799         137         0.37         0.0065         4.235         1.629         5.844         6.285         10.6         1.300         11.22           6.67         6.67         701         136         0.37         0.0067         4.235         1.681         5.816         6.235         10.6         1.300         11.23           6.67         6.77         703         136         0.37         0.0072         4.235         1.681         5.511         6.735         10.6         1.300         11.23           6.77         6.78         136         0.361         0.0071         4.275         1.681         5.511         6.775         10.6         1.300         11.23           6.30         6.341         799         135         0.361         0.0081         4.292         1.640         5.932         6.272         10.6         1.300         11.23           6.43         799         135         0.36         0.0082         4.292         1.640         5.931	6.56	6.56	754	137	0.37	0.0656	4.220	1.627	5.847	6.220	10.6	1.300	18.21
6.62         6.62         757         137         0.37         0.0662         4.235         1.629         5.844         6.235         10.6         1.300         18.22           6.67         6.67         761         136         0.37         0.0667         4.235         1.632         5.847         6.235         10.6         1.300         18.23           6.69         6.77         6.72         761         136         0.37         0.0672         4.233         1.632         5.845         6.234         10.6         1.300         18.23           6.72         6.72         763         136         0.36         0.0673         4.273         1.688         5.311         6.234         10.6         1.300         18.25           6.77         6.78         766         136         0.361         0.0614         4.272         1.688         5.315         6.272         10.6         1.300         18.25           6.80         6.84         799         135         0.36         0.0624         4.292         1.640         5.317         6.201         10.6         1.300         18.26           6.30         155         0.37         0.365         0.069         4.331	6.59	6.59	757	137	0.37	0.0659	4.236	1.627	5.863	6.236	10.6	1.300	18.22
6.64         6.65         790         137         0.07         0.0665         4.245         1.639         5.874         6.245         10.6         1.300         18.23           6.67         6.67         761         136         0.37         0.0670         4.253         1.682         5.887         6.223         10.6         1.300         18.24           6.72         6.75         785         136         0.37         0.0672         4.234         1.685         5.896         6.224         10.6         1.300         18.24           6.77         6.75         786         136         0.36         0.0678         4.2778         1.688         5.911         6.278         10.6         1.300         18.25           6.80         6.81         767         135         0.36         0.0681         4.322         1.640         5.932         6.272         10.6         1.300         18.25           6.83         6.89         771         135         0.36         0.0682         4.320         1.640         5.932         6.292         10.6         1.300         18.27           6.84         6.97         771         135         0.36         0.0697         4.320         1	6.62	6.62	757	137	0.37	0.0662	4.235	1.629	5.864	6.235	10.6	1.300	18.22
6.67         6.67         761         136         0.37         0.0067         4.285         1.622         5.845         6.285         10.6         1.300         11.23           6.72         6.72         776         136         0.37         0.0070         4.284         1.635         5.845         6.235         10.6         1.300         11.24           6.74         6.78         766         136         0.36         0.0075         4.273         1.638         5.911         6.274         10.6         1.300         11.23           6.80         6.81         767         136         0.36         0.0067         4.372         1.648         5.920         6.202         10.6         1.300         11.25           6.80         6.81         767         135         0.36         0.0064         4.302         1.640         5.932         6.202         10.6         1.300         11.27           6.83         6.92         771         135         0.36         0.0069         4.301         1.643         5.944         6.201         10.6         1.300         11.27           6.43         6.92         773         135         0.35 <th0.009< th="">         4.331         1.64</th0.009<>	6.64	6.65	759	137	0.37	0.0665	4.245	1.629	5.874	6.245	10.6	1.300	18.23
6.70         761         761         763         763         763         763         763         764         765         771         135         0.356         0.0697         4.333         1.643         5.944         6.303         1.06         1.300         1.828         6.377         700         771         135         0.355         0.0697         4.333         1.645         5.997         6.313         10.06         1.300	6.67	6.67	761	136	0.37	0.0667	4.255	1.632	5.887	6.255	10.6	1.300	18.23
	6.69	6.70	761	135	0.37	0.0670	4.253	1.632	5.665	6.253	10.6	1.300	18.24
	6.74	0.72	763	130	0.37	0.0672	9.209	1,635	5.011	6.204	10.6	1.300	10.24
c.77         c.78         1.26         c.267         1.268         2.276         1.268         2.276         1.268         1.267         1.268         1.	6.77	6.78	700	130	0.36	0.0678	4.273	1.638	5.911	6.278	10.6	1.300	18.25
1.00         1.00         1.00         1.000         1.	6.80	6.81	760	136	0.96	0.0581	4 383	1.638	5.920	6.282	10.6	1 300	18.26
100         100         100         10000         1000         1000         1	6.83	6.84	769	195	0.96	0.0684	4 202	1.640	5.982	6.292	10.6	1 300	18.26
6.88 $6.99$ $771$ $135$ $0.36$ $0.0692$ $4.209$ $1.643$ $5.944$ $6.501$ $10.6$ $1.300$ $18.28$ $6.94$ $6.95$ $773$ $135$ $0.36$ $0.0692$ $4.299$ $1.641$ $5.945$ $6.300$ $10.6$ $1.300$ $18.29$ $6.97$ $774$ $135$ $0.35$ $0.0697$ $4.313$ $1.646$ $5.955$ $6.300$ $10.6$ $1.300$ $18.29$ $6.97$ $774$ $135$ $0.35$ $0.0697$ $4.313$ $1.646$ $5.976$ $6.118$ $10.6$ $1.300$ $18.30$ $7.02$ $776$ $135$ $0.35$ $0.0702$ $4.337$ $1.649$ $5.976$ $6.335$ $10.4$ $1.500$ $18.29$ $7.06$ $777$ $134$ $0.35$ $0.0711$ $4.346$ $1.652$ $5.987$ $6.335$ $10.4$ $1.500$ $18.37$ $7.13$ $778$ $134$ $0.35$ $0$	6.86	6.87	769	135	0.36	0.0687	4.290	1.640	5.931	6.290	10.6	1.300	18.27
	6.88	6.89	771	135	0.36	0.0689	4.301	1.643	5.944	6.301	10.6	1.300	18.28
	6.91	6.92	771	135	0.36	0.0692	4.299	1.643	5.943	6.299	10.6	1.300	18.28
	6.94	6.95	773	135	0.35	0.0695	4.309	1.646	5.955	6.309	10.6	1.300	18.29
	6.97	6.97	774	135	0.35	0.0697	4.313	1.646	5.959	6.313	10.6	1.300	18.29
7.02         7.02         7.76         135         0.35         0.0702         4.527         1.649         5.976         6.327         10.4         1.500         18.28           7.06         7.06         777         134         0.35         0.0709         4.335         1.652         5.982         6.335         10.4         1.500         18.29           7.00         7.11         779         134         0.35         0.0711         4.346         1.652         5.991         6.345         10.4         1.500         18.30           7.13         7.14         700         134         0.35         0.0714         4.344         1.654         5.996         6.344         10.4         1.500         18.30           7.16         7.17         781         134         0.34         0.0720         4.357         6.009         6.382         10.4         1.500         18.32           7.21         7.22         785         134         0.34         0.0725         4.361         1.657         6.014         6.381         10.4         1.500         18.33           7.25         726         796         134         0.34         0.0730         4.359         1.660         6.	6.99	7.00	775	135	0.35	0.0700	4.318	1.649	5.967	6.318	10.6	1.300	18.30
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	7.02	7.02	776	135	0.35	0.0702	4.327	1.649	5.976	6.327	10.4	1.500	18.28
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	7.05	7.06	777	134	0.35	0.0706	4.331	1.652	5.982	6.331	10.4	1.500	18.29
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7.08	7.09	778	134	0.35	0.0709	4.335	1.652	5.987	6.335	10.4	1.500	18.29
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	7.10	7.11	779	134	0.35	0.0711	4.340	1.652	5.991	6.340	10.4	1.500	18.30
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7.13	7.14	780	134	0.35	0.0714	4.344	1.654	5.998	6.344	10.4	1.500	18.30
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7.10	7.17	781	139	0.35	0.0717	4.290	1.059	6.002	6.990	10.4	1.500	18.31
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7.19	7.20	782	134	0.54	0.0720	9.302	1.057	6.009	6.352	10.4	1.500	10.32
7.27 $7.28$ $794$ $134$ $0.34$ $0.0728$ $4.359$ $1.660$ $6.019$ $6.359$ $10.4$ $1.500$ $18.33$ $7.30$ $7.30$ $787$ $134$ $0.34$ $0.0733$ $4.375$ $1.660$ $6.019$ $6.375$ $10.4$ $1.500$ $18.34$ $7.32$ $7.33$ $787$ $134$ $0.34$ $0.0733$ $4.374$ $1.660$ $6.034$ $6.375$ $10.4$ $1.500$ $18.34$ $7.35$ $7.36$ $786$ $133$ $0.34$ $0.0736$ $4.378$ $1.663$ $6.041$ $6.378$ $10.4$ $1.500$ $18.35$ $7.38$ $7.38$ $738$ $1033$ $0.34$ $0.0738$ $4.388$ $1.663$ $6.050$ $6.388$ $10.4$ $1.500$ $18.35$ $7.41$ $7.41$ $790$ $133$ $0.33$ $0.0743$ $4.391$ $1.668$ $6.059$ $6.391$ $10.4$ $1.500$ $18.36$ <th< td=""><td>7.25</td><td>7.25</td><td>763</td><td>134</td><td>0.34</td><td>0.0725</td><td>4.307</td><td>1.657</td><td>6.018</td><td>6.961</td><td>10.4</td><td>1.500</td><td>18.32</td></th<>	7.25	7.25	763	134	0.34	0.0725	4.307	1.657	6.018	6.961	10.4	1.500	18.32
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7.27	7.28	784	194	0.94	0.0728	4 950	1.660	6.019	6.950	10.4	1 500	18.93
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7.30	7.30	787	194	0.34	0.0730	4.375	1.660	6.035	6.375	10.4	1 500	18.94
7.35         7.36         786         133         0.34         0.0736         4.378         1.663         6.041         6.378         10.4         1.500         18.35           7.38         7.38         7.38         790         133         0.34         0.0736         4.388         1.663         6.050         6.388         10.4         1.500         18.35           7.41         7.41         790         133         0.33         0.0741         4.386         1.666         6.052         6.386         10.4         1.500         18.35           7.43         7.43         791         133         0.33         0.0743         4.391         1.668         6.059         6.391         10.4         1.500         18.36           7.46         7.46         792         133         0.33         0.0746         4.395         1.668         6.063         6.395         10.4         1.500         18.37           7.48         7.49         793         133         0.33         0.0752         4.406         1.671         6.077         6.406         10.3         1.600         18.38           7.51         7.52         794         132         0.33         0.0757         4.4	7.32	7.33	787	134	0.34	0.0733	4.374	1.660	6.034	6.374	10.4	1.500	18.34
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7.35	7.36	788	133	0.34	0.0736	4.378	1.663	6.041	6.378	10.4	1.500	18,35
7.41         7.41         7.90         133         0.33         0.0741         4.386         1.666         6.052         6.386         10.4         1.500         18.36           7.43         7.43         7.43         791         133         0.33         0.0743         4.391         1.668         6.052         6.386         10.4         1.500         18.36           7.46         7.46         7.92         133         0.33         0.0746         4.395         1.668         6.053         6.395         10.4         1.500         18.36           7.46         7.49         793         133         0.33         0.0749         4.399         1.668         6.063         6.395         10.4         1.500         18.37           7.51         7.52         794         132         0.33         0.0752         4.406         1.671         6.077         6.406         10.3         1.600         18.38           7.53         7.54         796         132         0.33         0.0757         4.410         1.671         6.081         6.410         10.3         1.600         18.38           7.59         7.57         796         132         0.33         0.0759         4	7.38	7.38	790	133	0.34	0.0738	4.388	1.663	6.050	6.388	10.4	1.500	18.35
7.43         7.43         791         133         0.33         0.0743         4.391         1.668         6.059         6.391         10.4         1.500         18.36           7.46         7.46         7.92         133         0.33         0.0746         4.395         1.668         6.063         6.395         10.4         1.500         18.37           7.48         7.49         793         133         0.33         0.0749         4.399         1.668         6.063         6.395         10.4         1.500         18.37           7.51         7.52         794         132         0.33         0.0752         4.406         1.671         6.077         6.406         10.3         1.600         18.37           7.53         7.54         796         132         0.33         0.0754         4.410         1.671         6.081         6.410         10.3         1.600         18.38           7.56         7.57         796         132         0.33         0.0757         4.414         1.674         6.088         6.414         10.3         1.600         18.38           7.59         7.59         797         152         0.32         0.0762         4.419         1	7.41	7.41	790	133	0.33	0.0741	4.386	1.666	6.052	6.386	10.4	1.500	18.36
7.46         7.46         7.92         133         0.33         0.0746         4.395         1.668         6.063         6.395         10.4         1.500         18.37           7.48         7.49         793         133         0.33         0.0749         4.399         1.668         6.063         6.395         10.4         1.500         18.37           7.51         7.52         794         132         0.33         0.0752         4.406         1.671         6.077         6.406         10.3         1.600         18.37           7.53         7.54         796         132         0.33         0.0754         4.420         1.671         6.081         6.410         10.3         1.600         18.38           7.56         7.57         796         132         0.33         0.0757         4.414         1.674         6.088         6.414         10.3         1.600         18.38           7.59         7.59         797         152         0.33         0.0759         4.419         1.674         6.093         6.419         10.3         1.600         18.39           7.61         7.62         797         152         0.32         0.0762         4.418         1	7.43	7.43	791	133	0.33	0.0743	4.391	1.668	6.059	6.391	10.4	1.500	18.36
7.48         7.49         798         133         0.33         0.0749         4.399         1.668         6.068         6.399         10.4         1.500         18.38           7.51         7.52         794         132         0.33         0.0752         4.406         1.671         6.077         6.406         10.3         1.600         18.37           7.53         7.54         796         132         0.33         0.0754         4.420         1.671         6.081         6.410         10.3         1.600         18.37           7.56         7.57         796         132         0.33         0.0757         4.414         1.674         6.081         6.414         10.3         1.600         18.38           7.59         7.59         7.59         7.97         152         0.33         0.0759         4.419         1.674         6.088         6.414         10.3         1.600         18.39           7.61         7.62         797         152         0.32         0.0762         4.418         1.677         6.094         6.418         10.3         1.600         18.39           7.64         7.65         798         132         0.32         0.0768         4.	7.46	7.46	792	133	0.33	0.0746	4.395	1.668	6.063	6.395	10.4	1.500	18.37
7.51         7.52         794         132         0.33         0.0752         4.406         1.671         6.077         6.406         10.3         1.600         18.37           7.53         7.54         795         132         0.33         0.0754         4.420         1.671         6.081         6.410         10.3         1.600         18.38           7.56         7.57         796         132         0.33         0.0757         4.414         1.674         6.081         6.414         10.3         1.600         18.38           7.59         7.59         7.59         7.57         796         132         0.33         0.0757         4.419         1.674         6.088         6.414         10.3         1.600         18.38           7.59         7.59         7.57         796         132         0.33         0.0759         4.419         1.674         6.093         6.419         10.3         1.600         18.39           7.61         7.62         797         152         0.32         0.0765         4.422         1.677         6.094         6.418         10.3         1.600         18.49           7.64         7.65         798         132         0.32<	7.48	7.49	798	133	0.33	0.0749	4.399	1.668	6.068	6.399	10.4	1.500	18.38
7.53         7.54         795         132         0.33         0.0754         4.420         1.671         6.081         6.410         10.3         1.600         18.38           7.56         7.57         796         132         0.33         0.0757         4.414         1.674         6.081         6.410         10.3         1.600         18.38           7.59         7.59         7.59         7.59         7.97         132         0.33         0.0759         4.419         1.674         6.088         6.414         10.3         1.600         18.38           7.59         7.59         7.57         797         132         0.33         0.0759         4.419         1.674         6.093         6.419         10.3         1.600         18.39           7.61         7.62         797         132         0.32         0.0765         4.422         1.677         6.094         6.418         10.3         1.600         18.49           7.64         7.65         796         132         0.32         0.0768         4.422         1.677         6.098         6.422         10.3         1.600         18.40           7.67         7.68         799         132         0.32	7.51	7.52	794	132	0.33	0.0752	4.406	1.671	6.077	6.406	10.3	1.600	18.37
7.56         7.57         796         132         0.33         0.0757         4.414         1.674         6.088         6.414         10.3         1.600         18.38           7.59         7.59         7.59         797         132         0.33         0.0759         4.419         1.674         6.088         6.414         10.3         1.600         18.38           7.59         7.59         7.57         7.97         132         0.33         0.0759         4.419         1.674         6.093         6.419         10.3         1.600         18.39           7.61         7.62         797         132         0.32         0.0765         4.418         1.677         6.094         6.418         10.3         1.600         18.39           7.64         7.65         796         132         0.32         0.0765         4.422         1.677         6.098         6.422         10.3         1.600         18.40           7.67         7.68         799         132         0.32         0.0768         4.426         1.679         6.105         6.426         10.3         1.600         18.40           7.70         7.71         799         132         0.32         0.07	7.53	7.54	795	132	0.33	0.0754	4.410	1.671	6.081	6.410	10.3	1.600	18.38
7.59         7.59         7.97         132         0.33         0.0759         4.419         1.674         6.093         6.419         10.3         1.600         18.39           7.61         7.62         797         132         0.32         0.0762         4.419         1.677         6.094         6.419         10.3         1.600         18.39           7.61         7.62         797         132         0.32         0.0762         4.418         1.677         6.094         6.418         10.3         1.600         18.39           7.64         7.65         796         132         0.32         0.0765         4.422         1.677         6.098         6.422         10.3         1.600         18.40           7.67         7.68         799         132         0.32         0.0768         4.426         1.679         6.105         6.426         10.3         1.600         18.40           7.70         7.71         799         132         0.32         0.0771         4.424         1.679         6.104         6.424         10.3         1.600         18.40           7.73         7.74         799         132         0.32         0.0771         4.424         1	7.56	7.57	796	132	0.33	0.0757	4.414	1.674	6.088	6.414	10.3	1.600	18.38
7.61         7.62         797         132         0.32         0.0762         4.418         1.677         6.094         6.418         10.3         1.600         18.39           7.64         7.65         796         132         0.32         0.0765         4.422         1.677         6.096         6.422         10.3         1.600         18.49           7.67         7.68         799         132         0.32         0.0768         4.426         1.679         6.105         6.426         10.3         1.600         18.40           7.67         7.68         799         132         0.32         0.0768         4.426         1.679         6.105         6.426         10.3         1.600         18.40           7.70         7.71         799         132         0.32         0.0771         4.424         1.679         6.104         6.424         10.3         1.600         18.40           7.73         7.74         7.99         132         0.32         0.07714         4.424         1.679         6.104         6.424         10.3         1.600         18.40           7.73         7.74         7.99         1.32         0.32         0.07724         4.424         <	7.59	7.59	797	132	0.33	0.0759	4.419	1.674	6.093	6.419	10.3	1.600	18.39
7.54         7.65         798         132         0.32         0.0765         4.422         1.677         6.096         6.422         10.3         1.600         18.40           7.67         7.68         799         132         0.32         0.0768         4.426         1.679         6.105         6.425         10.3         1.600         18.40           7.67         7.68         799         132         0.32         0.0768         4.426         1.679         6.105         6.425         10.3         1.600         18.40           7.70         7.71         799         132         0.32         0.0771         4.424         1.679         6.104         6.424         10.3         1.600         18.41           7.73         7.74         801         131         0.32         0.0774         4.444         1.682         6.156         6.434         10.3         1.600         18.41	7.61	7.62	797	132	0.32	0.0762	4.418	1.677	6.094	6.418	10.3	1.600	18.39
7.67         7.66         799         132         0.32         0.0768         4.426         1.679         6.105         6.426         10.3         1.600         18.40           7.70         7.71         799         132         0.32         0.0771         4.424         1.679         6.104         6.424         10.3         1.600         18.41           7.73         7.74         801         131         0.32         0.0724         4.434         1.682         6.116         6.434         10.3         1.600         18.41	7.64	7.65	798	132	0.32	0.0765	4.422	1.677	6.098	6.422	10.3	1.600	18.40
7.70 7.71 799 132 0.32 0.0771 4.424 1.679 6.104 6.424 10.3 1.600 18.41 7.73 7.74 801 131 0.32 0.0774 4.444 1.682 6.116 6.434 10.3 1.600 18.41	7.67	7.68	799	132	0.32	0.0768	4.425	1.679	6.105	6.425	10.3	1.600	18.40
	7.70	7.71	799	132	0.32	0.0774	4,424	1.679	6,104	6,434	10.3	1.600	18.41

Deformació n (mm)	Deform. Unitaria	Celda Carga N	Presión de poros (kPa)	Incremento deportos (ket/cm <sup>2</sup> )	Deform. Unitaria	Esfuerzo Desviador (ket (cm <sup>2</sup> )	s'3 Efectivo	s'1 Efectivo	s1 Total	Lectura bureta	Cambio volumen	Area corregida
				(approx )		(eg)/can /	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(cm)	(can )	
7.75	7.76	802	131	0.32	0.0776	4.439	1.682	6.121	6.439	10.3	1.600	18.42
7.78	7.79	803	131	0.32	0.0779	4.443	1.682	6.125	6.443	10.3	1.600	18.42
7.81	7.82	804	131	0.31	0.0782	4.447	1.685	6.132	6.447	10.3	1.600	18.43
7.83	7.84	805	131	0.31	0.0784	4.451	1.685	6.136	6.451	10.3	1.600	18.43
7.86	7.87	806	131	0.31	0.0787	4.455	1.688	6.143	6.455	10.3	1.600	18.44
7.89	7.89	808	130	0.31	0.0789	4.465	1.691	6.156	6.465	10.3	1.600	18.45
7.92	7.92	808	130	0.31	0.0792	4.464	1.691	6.154	6.464	10.3	1.600	18.45
7.94	7.95	810	130	0.31	0.0795	4,474	1.693	6.167	6.474	10.3	1.600	18.46
7.97	7.97	811	130	0.31	0.0797	4.478	1.693	6.171	6.478	10.3	1.600	18.46
7.99	8.00	813	130	0.31	0.0800	4.487	1.693	6.181	6.487	10.3	1.600	18.47
8.02	8.03	814	130	0.30	0.0803	4.492	1.696	6.188	6.492	10.3	1.600	18.47
8.04	8.05	815	130	0.30	0.0805	4.496	1.699	6.195	6.496	10.3	1.600	18.48
8.07	8.08	817	130	0.30	0.0808	4.506	1.699	6.205	6.506	10.3	1.600	18.48
8.10	8.10	819	129	0.30	0.0810	4.516	1.702	6.217	6.516	10.3	1.600	18.49
8.12	8.13	820	129	0.30	0.0813	4.520	1.702	6.222	6.520	10.3	1.600	18.49
8.15	8.15	823	129	0.30	0.0815	4.535	1.702	6.237	6.535	10.3	1.600	18.50
8.17	8.18	824	129	0.30	0.0818	4.539	1.705	6.244	6.539	10.3	1.600	18.50
8.20	8.21	826	129	0.29	0.0821	4.549	1.707	6.256	6.549	10.3	1.600	18.51
8.22	8.23	828	129	0.29	0.0823	4.559	1.707	6.266	6.559	10.3	1.600	18.51
8.25	8.26	829	129	0.29	0.0826	4.563	1.707	6.270	6.563	10.3	1.600	18.52
8.28	8.29	831	128	0.29	0.0829	4.572	1.710	6.283	6.572	10.3	1.600	18.53
8.30	8.31	832	128	0.29	0.0831	4.577	1.710	6.287	6.577	10.3	1.600	18.53
8.33	8.34	832	128	0.29	0.0834	4.575	1.713	6.288	6.575	10.3	1.600	18.54
8.35	8.36	834	128	0.29	0.0836	4.585	1.713	6.298	6.585	10.3	1.600	18.54
8.38	8.39	834	128	0.28	0.0839	4.584	1.716	6.300	6.584	10.3	1.600	18.55
8.40	8.41	835	128	0.28	0.0841	4.588	1.719	6.307	6.588	10.3	1.600	18.55
8.43	8.44	837	128	0.28	0.0844	4.598	1.719	6.316	6.598	10.3	1.600	18.56
8.45	8.46	838	127	0.28	0.0846	4.602	1.721	6.323	6.602	10.3	1.600	18.56
8.48	8.49	839	127	0.28	0.0849	4.606	1.721	6.327	6.606	10.3	1.600	18.57
8.50	8.51	841	127	0.28	0.0851	4.616	1.721	6.337	6.616	10.3	1.600	18.57
8.53	8.54	841	127	0.28	0.0854	4.615	1.724	6.339	6.615	10.3	1.600	18.58
8.56	8.57	843	127	0.27	0.0857	4.624	1.727	6.351	6.624	10.3	1.600	18.58
8.58	8.59	843	127	0.27	0.0859	4.623	1.727	6.350	6.623	10.3	1.600	18.59
8.61	8.62	845	127	0.27	0.0862	4.632	1.727	6.359	6.632	10.3	1.600	18.59
8.63	8.64	846	127	0.27	0.0864	4.637	1.730	6.367	6.637	10.3	1.600	18.60
8.66	8.67	845	127	0.27	0.0867	4.630	1.730	6.360	6.630	10.3	1.600	18.60
8.69	8.70	846	126	0.27	0.0870	4.634	1.732	6.366	6.634	10.3	1.600	18.61
8.72	8.73	847	126	0.27	0.0873	4.638	1.732	6.370	6.638	10.3	1.600	18.62
8.74	8.75	847	126	0.27	0.0875	4.637	1.732	6.369	6.637	10.3	1.600	18.62
8.76	8.77	848	126	0.26	0.0877	4.641	1.735	6.376	6.641	10.3	1.600	18.63
8.79	8.80	849	126	0.26	0.0880	4.645	1.735	6.380	6.645	10.3	1.600	18.63
8.81	8.82	850	126	0.26	0.0882	4.650	1.735	6.385	6.650	10.3	1.600	18.64
8.84	8.85	851	126	0.26	0.0885	4.654	1.738	6.392	6.654	10.3	1.600	18.64
8.87	8.88	851	126	0.26	0.0888	4.652	1.738	6.390	6.652	10.3	1.600	18.65
8.90	8.91	852	125	0.26	0.0891	4.656	1.741	6.397	6.656	10.3	1.600	18.65
8.92	8.93	853	125	0.26	0.0893	4.660	1.744	6.404	6.660	10.3	1.600	18.66
8.95	8.96	854	125	0.26	0.0896	4.664	1.744	6.408	6.664	10.3	1.600	18.66
8.98	8.99	855	125	0.26	0.0899	4.668	1.744	6.412	6.668	10.3	1.600	18.67
9.01	9.02	856	125	0.25	0.0902	4.672	1.746	6.419	6.672	10.3	1.600	18.68
9.03	9.04	857	125	0.25	0.0904	4.677	1.746	6.423	6.677	10.3	1.600	18.68
9.06	9.07	858	125	0.25	0.0907	4.681	1.749	6.430	6.681	10.3	1.600	18.69
9.09	9.10	859	125	0.25	0.0910	4.685	1.749	6.434	6.685	10.3	1.600	18.69
9.11	9.12	860	124	0.25	0.0912	4.689	1.752	6.441	6.689	10.3	1.600	18.70
9.14	9.15	860	124	0.25	0.0915	4.687	1.755	6.442	6.687	10.3	1.600	18.70
9.17	9.17	862	124	0.25	0.0917	4.697	1.755	6.452	6.697	10.3	1.600	18.71
9.19	9.20	863	124	0.25	0.0920	4.701	1.755	6.455	6.701	10.3	1.600	18.71
9.22	9.22	864	124	0.25	0.0922	4.705	1.755	6.460	6.705	10.3	1.600	18.72
9.24	9.25	865	124	0.24	0.0925	4.709	1.758	6.467	6.709	10.3	1.600	18.72

	Deform.			Incremento		Esfuerzo	13	s'1	<b>s1</b>	Lecture	Cambio	
n (mm)	Unitaria	Celda Carga N	Presión de poros (kPa)	deporos	Deform. Unitaria	Desviador	Efectivo	Efectivo	Total	bureta	volumen	Area corregida
	~			(kg/cm')		(kg/cm')	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm²)	(cm <sup>-</sup> )	(cm')	
9.27	9.28	866	123	0.24	0.0928	4.713	1.760	6.473	6.713	10.3	1.600	18.73
9.30	9.31	867	123	0.24	0.0951	4.717	1.760	6.477	6.717	10.3	1.600	18.74
9.33	9.34	869	123	0.24	0.0934	4.725	1.763	6.489	6.725	10.3	1.600	18.74
9.35	9.36	869	123	0.24	0.0936	4.725	1.763	6,488	6.725	10.3	1.600	18.75
9.40	9.41	871	123	0.23	0.0941	4,733	1,769	6.502	6,733	10.3	1.600	18.76
9.43	9.44	871	123	0.23	0.0944	4,732	1,769	6.500	6,732	10.3	1.600	18,76
9.46	9.47	872	123	0.23	0.0347	4.736	1.769	6.504	6.736	10.3	1.600	18.77
9.48	9,49	874	122	0.23	0.0949	4.745	1.771	6.517	6.745	10.3	1.600	18.77
9.51	9.52	875	122	0.23	0.0952	4,749	1.771	6.521	6.749	10.3	1.600	18.78
9.54	9.55	876	122	0.23	0.0955	4.753	1.774	6.528	6.753	10.3	1.600	18.79
9.56	9.57	876	122	0.23	0.0957	4.752	1.774	6.526	6.752	10.3	1.600	18.79
9.59	9.60	877	122	0.22	0.0960	4.756	1.777	6.533	6.756	10.3	1.600	18,80
9.62	9.63	8/8	122	0.22	0.0963	4.750	1.780	6.540	6.760	10.3	1.600	18.80
9.67	9.65	890	122	0.22	0.0000	4,709	1,780	6.544	6.764	10.3	1.600	18.81
9,70	9.71	881	121	0.22	0.0971	4,700	1.783	6.555	6.772	10.3	1.600	18.82
9,73	9,74	882	121	0.22	0.0974	4,776	1,783	6.558	6,776	10.3	1.600	18.83
9.75	9.76	883	121	0.21	0.0976	4,780	1,785	6,566	6,780	10.3	1.600	18.83
9.78	9.79	883	121	0.21	0.0979	4.779	1.785	6.564	6.779	10.3	1.600	18.84
9.80	9.81	884	121	0.21	0.0981	4.783	1.785	6.568	6.783	10.3	1.600	18.84
9.83	9.84	884	121	0.21	0.0384	4.781	1.785	6.567	6.781	10.3	1.600	18.85
9.85	38.8	885	121	0.21	0.0986	4.786	1.788	6.574	6.786	10.3	1.600	18.85
9.88	9.89	886	120	0.21	0.0989	4.789	1.791	6.580	6.789	10.3	1.600	18.86
9.91	9.92	886	120	0.21	0.0992	4.788	1.791	6.579	6.788	10.3	1.600	18.86
9.93	9.94	887	120	0.21	0.0394	4.792	1.791	6.583	6.792	10.3	1.600	18.87
9.96	9.97	888	120	0.21	0.0997	4.796	1.794	6.590	6.796	10.3	1.600	18.87
9.98	9.99	889	120	0.21	0.0999	4.800	1.794	6.594	6.800	10.3	1.600	18.88
10.03	10.04	801	120	0.20	0.1004	4.850	1 200	6.610	6.810	10.2	1,700	18.88
10.05	10.07	801	120	0.20	0.1007	4,800	1 200	6.600	6.800	10.2	1,700	18.89
10.08	10.09	893	120	0.20	0.1009	4.819	1,799	6.618	6.819	10.2	1.700	18,89
10.11	10.12	893	120	0.20	0.1012	4.817	1,799	6.617	6.817	10.2	1.700	18.90
10.14	10.15	894	119	0.20	0.1015	4.821	1.802	6.623	6.821	10.2	1.700	18.90
10.16	10.17	895	119	0.20	0.1017	4.825	1.802	6.628	6.825	10.2	1.700	18.91
10.19	10.20	895	119	0.20	0.1020	4.824	1.805	6.629	6.824	10.2	1.700	18.91
10.21	10.22	897	119	0.20	0.1022	4.834	1.805	6.638	6.834	10.2	1.700	18.92
10.24	10.25	897	119	0.19	0.1025	4.832	1.808	6.640	6.832	10.2	1.700	18.92
10.26	10.27	898	119	0.19	0.1027	4.836	1.808	6.643	6.836	10.2	1.700	18.93
10.29	10.30	899	118	0.19	0.1030	4.640	1.810	6.650	6.840	10.2	1.700	18.94
10.31	30.32	899	118	0.19	0.1032	4.636	1.610	6.649	6.635	10.2	1.700	18.94
10.34	20.35	902	118	0.19	0.1037	4,852	1.813	6.665	6.852	10.2	1.700	18.95
10,39	10.40	902	118	0.19	0.1040	4.850	1.813	6.664	6.850	10.2	1,700	18.96
10.42	10.43	903	118	0.19	0.1043	4.854	1.813	6.667	6.854	10.2	1.700	18.96
10.44	10.45	904	118	0.18	0.1045	4.858	1.816	6.674	6.858	10.2	1.700	18.97
10.47	10.48	904	118	0.18	0.1048	4.857	1.816	6.673	6.857	10.2	1.700	18.97
10.50	10.51	905	118	0.18	0.1051	4.860	1.819	6.679	6.860	10.2	1.700	18.98
10.52	10.53	905	117	0.18	0.1053	4.859	1.822	6.681	6.859	10.2	1.700	18.98
10.55	10.56	906	117	0.18	0.1056	4.863	1.822	6.685	6.863	10.2	1.700	18.99
10.57	10.58	907	117	0.18	0.1058	4.867	1.822	6.689	6.867	10.2	1.700	19.00
10.60	10.61	908	117	0.18	0.1061	4.871	1.822	6.693	6.871	10.2	1.700	19.00
10.63	10.64	909	117	0.18	0.1064	4.875	1.824	6.699	6.875	10.2	1.700	19.01
10.65	10.65	909	117	0.17	0.1065	4.6/4	1,827	6,606	6,872	10.2	1.700	19.01
10.30	10.71	910	117	0.12	0.1071	4.872	1 827	6 208	6.874	10.2	1,700	19.02
10.75	10.74	910	117	0.17	0.1074	4,875	1,827	6,702	6,875	10.2	1,700	19.08
awara	10.00	840	110	0.17	0.1076	4,979	1,990	6 308	6.873	10.3	1 200	10.03

Deformació n (mm)	Deform. Unitaria	Ceida Cerca N	Presión de poros (kPa)	Incremento deporos	Deform. Unitaria	Esfuerzo Desviador	s'3 Efectivo	s'1 Efectivo	s1 Total	Lectura bureta	Cambio volumen	Area
	*		,	(kgf/cm²)		(kgf/cm²)	(kgf/cm²)	(kgf/cm <sup>3</sup> )	(kgf/cm²)	(cm²)	(cm <sup>3</sup> )	
10.77	10.79	910	116	0.17	0.1079	4.872	1.830	6.702	6.872	10.2	1.700	19.04
10.80	10.81	910	116	0.17	0.1081	4.871	1.833	6.703	6.871	10.2	1.700	19.05
10.83	10.84	911	116	0.17	0.1084	4.874	1.833	6.707	6.874	10.2	1.700	19.05
10.85	10.86	910	116	0.17	0.1086	4.868	1.833	6.701	6.868	10.2	1.700	19.06
10.87	10.89	911	116	0.16	0.1089	4.872	1.836	6.708	6.872	10.2	1.700	19.06
10.90	10.91	911	116	0.16	0.1091	4.870	1.836	6.706	6.870	10.2	1.700	19.07
10.93	30.94	910	116	0.16	0.1094	4.864	1.836	6.699	6.864	10.2	1.700	19.07
10.95	10.96	911	116	0.16	0.1096	4.868	1.838	6.706	6.868	10.2	1.700	19.08
10.98	10.99	911	116	0.16	0.1099	4.866	1.838	6.704	6.866	10.2	1.700	19.08
11.00	11.02	911	115	0.16	0.1102	4.865	1.841	6.706	6.865	10.2	1.700	19.09
11.03	11.04	911	115	0.16	0.1104	4.863	1.841	6.704	6.863	10.2	1.700	19.09
11.06	11.07	912	115	0.16	0.1107	4.867	1.841	6.708	6.867	10.2	1.700	19.10
11.08	11.09	912	115	0.16	0.1109	4.866	1.841	6.707	6.866	10.2	1.700	19.11
11.11	11.12	913	115	0.16	0.1112	4.870	1.844	6.714	6.870	10.2	1.700	19.11
11.14	11.15	912	115	0.16	0.1115	4.863	1.844	6.707	6.863	10.2	1.700	19.12
11.16	11.17	913	115	0.15	0.1117	4.867	1.847	6,714	6.867	10.2	1.700	19,12
11.19	11.20	913	115	0.15	0.1120	4.865	1.847	6.712	6.865	10.2	1.700	19.13
11.22	11.23	913	115	0.15	0.1123	4.864	1.847	6,710	6.864	10.2	1.700	19,14
11.25	11.26	914	115	0.15	0.1126	4.867	1.847	6,714	6.867	10.2	1,700	19.14
11.27	11.28	914	115	0.15	0.1128	4,866	1,850	6,716	6.866	10.2	1,700	19.15
11.30	11.31	913	115	0.15	0.1131	4,859	1.850	6,709	6.859	10.2	1,700	19.15
11.91	11.32	913	114	0.15	0.1132	4.858	1.852	6.711	6.858	10.2	1,700	19.16
11.34	11.35	913	114	0.15	0.1135	4.857	1.852	6,709	6.857	10.2	1,700	19.16
11.36	11.37	913	114	0.15	0.1137	4.856	1.852	6,708	6.856	10.2	1,700	19.17
11 38	11.40	914	114	0.15	0.1140	4.860	1.852	6.712	6.860	10.2	1 700	19.17
11.41	11.42	914	114	0.14	0.1142	4,858	1.855	6.713	6.858	10.2	1,700	19.18
11.45	11.46	915	114	0.14	0.1146	4.862	1.855	6.717	6.862	10.2	1 700	19.19
11.48	11.40	915	114	0.14	0.1149	4.860	1.858	6.718	6.860	10.2	1 700	10.10
11.51	11.52	915	114	0.14	0.1152	4.861	1.858	6,719	6.861	10.1	1.800	1010
11.54	11.65	915	114	0.14	0.1155	4 850	1 858	6.717	6.850	10.1	1.800	10.10
11.50	11.57	015	110	0.14	0.1157	4.95.9	1.001	6 710	6.059	10.1	1,000	18.30
11.50	11.60	945	113	0.14	0.1160	4.600	1.863	6,730	6.857	10.1	1.800	19.20
11.61	11.63	015	113	0.14	0.1163	4 955	1 863	6 710	6.955	10.1	1,800	18.21
11.04	11.02	945	113	0.14	0.1165	4,000	1.000	6,722	6.050	10.1	1,000	10.00
11.67	11.60	910	113	0.19	0.1168	4,609	1.865	6.724	6.857	10.1	1,800	19.22
11.07	11.00	340	113	0.13	0.1130	4.60/	1,000	6,729	6.657	10.1	1,000	19.22
11.09	11.70	910	113	0.13	0.1170	4,600	1,000	6.722	6.000	10.1	1,800	19.23
11.72	11.75	940	113	0.13	0.1175	4,600	1,000	6.721	6.050	10.1	1,000	19.25
11.79	11.75	917	115	0.13	0.1175	9.609	1.009	6,728	6.007	10.1	1.800	19.29
11.77	11.78	917	113	0.13	0.1178	4.607	1,869	6.725	6.857	10.1	1.800	19.24
11.00	11.01	340	113	0.13	0.1101	4,001	1,000	6,730	6.001	10.1	1,000	19.25
11.82	11.65	918	112	0.13	0.1185	4.000	1.872	6.731	0.860	10.1	1.800	19.25
11.84	11.86	918	112	0.13	0.1186	4.656	1.872	6.730	6.858	10.1	1.800	19.25
11.67	11.69	919	112	0.15	0.1169	9,002	1.875	6.730	0.002	10.1	1.800	19.27
11.90	11.91	919	112	0.13	0.1191	4.800	1.875	6.735	6.860	10.1	1.800	19.28
11.92	11.94	919	112	0.12	0.1194	4.859	1.877	6.736	6.859	10.1	1.800	19.28
11.95	11.96	920	112	0.12	0.1196	4.863	1.877	6.740	6.863	10.1	1.800	19.29
11.98	11.99	919	112	0.12	0.1199	4.656	1.877	6.733	6.855	10.1	1.800	19.29
12.01	12.02	920	112	0.12	0.1202	4.859	1.877	6.737	6.859	10.1	1.800	19.30
12.04	12.05	919	111	0.12	0.1205	4.853	1.880	6.733	6.853	10.1	1.800	19.31
12.07	12.08	920	111	0.12	0.1208	4.856	1.880	6.736	6.856	10.1	1.800	19.31
12.10	12.11	921	111	0.12	0.1211	4.860	1.880	6.740	6.860	10.1	1.800	19.32
12.12	12.14	921	111	0.12	0.1214	4.858	1.883	6.741	6.858	10.1	1.800	19.32
12.15	12.16	921	111	0.12	0.1216	4.857	1.883	6.740	6.857	10.1	1.800	19.33
12.18	12.19	922	111	0.12	0.1219	4.860	1.883	6.743	6.860	10.1	1.800	19.34
12.20	12.22	922	111	0.12	0.1222	4.859	1.883	6.742	6.859	10.1	1.800	19.34
12.23	12.24	923	111	0.12	0.1224	4.863	1.883	6.746	6.863	10.1	1.800	19.35
12.26	12.27	923	111	0.11	0.1227	4.861	1.886	6.747	6.861	10.1	1.800	19.35
12.30	12.31	925	111	0.11	0.1231	4.870	1.886	6.755	6.870	10.1	1.800	19.36

Deformació n (mm)	Deform. Unitaria	Celda Carga N	Presión de poros (kPa)	Incremento deporos	Deform. Unitaria	Exfuerzo Desviador	s'3 Efectivo	s'1 Efectivo	s1 Total	Lectura	Cambio volumen	Area
	~			(kgt/cm*)		(kgf/cm*)	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm²)	(cm*)	(cm*)	
12.32	12.33	925	111	0.11	0.1233	4.869	1.886	6.754	6.869	10.1	1.800	19.37
12.35	12.36	925	111	0.11	0.1236	4.867	1.886	6.753	6.867	10.1	1.800	19.37
12.38	12.39	925	111	0.11	0.1239	4.865	1.886	6.751	6.865	10.1	1.800	19.38
12,40	12.41	925	111	0.11	0.1241	4.864	1.889	6.753	6.864	10.1	1.800	19,39
12.43	12.44	924	111	0.11	0.1244	4.857	1.889	6.746	6.857	10.1	1.800	19.39
12,45	12,46	924	111	0.11	0.1246	4.856	1.889	6,745	6.856	10.1	1.800	19,40
12.48	12.49	923	110	0.11	0.1249	4,849	1,891	6,740	6,849	10.1	1,800	19,40
12.51	12.52	924	110	0.11	0.1252	4.853	1.891	6.744	6.853	10.1	1.800	19,41
12.53	12.54	904	110	0.11	0.1254	4.852	1.891	6,743	6.852	10.1	1,800	19.41
12.56	12.57	923	110	0.11	0.1257	4.845	1.891	6,736	6.845	10.1	1.800	19.42
12.58	12.60	923	110	0.11	0.1260	4.843	1.894	6,737	6.843	10.1	1.800	19,43
12.61	12.62	923	110	0.11	0.1262	4.842	1.894	6,736	6.842	10.1	1,800	19.43
12.63	12.65	928	110	0.11	0.1265	4 840	1.894	6.734	6.840	10.1	1.800	19.44
12.66	12.68	923	110	0.11	0.1268	4,839	1.894	6,733	6,899	10.1	1.800	19.44
12.60	12 20	922	110	0.11	0.1220	4 832	1.894	6,726	6.892	10.1	1.800	19.45
12.71	12.78	822	110	0.11	0.1278	4 891	1 894	6 735	6.991	10.1	1.800	10.46
12.74	12.76	922	110	0.10	0.1276	4,829	1.897	6,726	6.829	10.1	1.800	19.46
13.77	13.70	001	110	0.10	0.1278	4,822	1.997	6.710	6.922	10.1	1.800	10.47
13.30	13.81	800	110	0.10	0.1381	4.836	1.997	6 719	6 926	10.1	1.800	10.47
12.82	12.81	922	110	0.10	0.1283	4,819	1.897	6.716	6.819	10.1	1.800	19.48
12.85	12.86	821	110	0.10	0.1286	4,818	1,000	6.717	6.918	10.1	1.800	10.40
13.97	13.00	800	110	0.10	0.1389	4,833	1,007	6.750	6.000	10.1	1.000	10.40
12.07	12.00	922	110	0.10	0.1200	4.622	1.000	6.719	6.822	10.1	1.800	19,49
12.91	12.96	344	100	0.10	0.1202	4.620	1,000	6.749	6.010	10.1	1,000	10.51
12.09	12.30	341	109	0.10	0.1290	4.643	1,000	6.745	0.013	10.1	1.000	19.51
12.97	12.96	921	110	0.10	0.1298	4.611	1.900	6.711	6.811	10.1	1.800	19.51
12.00	12.00	344	100	0.10	0.1909	4.643	1,000	6.740	6.017	10.0	1,000	10.52
13.02	13,05	343	109	0.10	0.1303	4.617	1.002	6,719	6.617	10.2	1.700	19.55
13.09	13.00	329	109	0.10	0.1300	4.620	1.902	6,725	6.820	10.2	1,700	19.54
19.10	12.11	005	100	0.10	0.1911	4,823	1,000	6,720	6.024	10.2	1,700	10.55
13.10	13.11	345	109	0.40	0.1011	4.622	1,002	6,725	6.822	10.2	1,700	19.55
13.13	13.14	925	109	0.09	0.1314	4.620	1.905	6.725	6.820	10.2	1.700	19.55
10.10	13.10	340	109	0.09	0.1310	4,625	1,005	6,730	6.025	10.2	1,700	19.57
13.10	13.19	347	109	0.00	0.1319	4.620	1.305	6,733	6.628	10.2	1.700	19.57
13.21	13.22	920	109	0.09	0.1322	4.621	1.905	6.727	6.821	10.2	1.700	19.56
13.23	13.24	347	109	0.09	0.1324	4.625	1,005	6,731	6.625	10.2	1.700	19.59
13.20	13.27	3/20	109	0.09	0.1327	4.610	1.905	6,729	6,833	10.2	1,700	19.59
13.29	13.30	347	109	0.09	0.1990	4.022	1,005	6.727	6.022	10.2	1,700	19.00
13.31	13.32	340	109	0.09	0.1332	4.6/0	1.905	6,731	0.020	10.2	1.700	19.60
13.34	13.35	927	109	0.09	0.1335	4.619	1.908	6.727	6,000	10.2	1.700	19.61
13.30	13.37	329	109	0.09	0.1337	4.628	1,000	6.739	6.628	10.2	1,700	19.61
13.39	13,40	901	109	0.09	0.1340	4.637	1.908	6.745	6.837	10.2	1.700	19.62
13.42	13,43	931	109	0.09	0.1343	4.635	1.905	6.741	6.835	10.2	1.700	19.63
13,45	13,46	952	109	0.09	0.1346	4.639	1.905	6.744	0.639	10.2	1.700	19.63
13,48	13,49	932	109	0.09	0.1349	4.637	1.905	6.743	0.037	10.2	1.700	19.64
13.50	13.52	932	109	0.09	0.1352	4.836	1.905	6.741	6.835	10.2	1.700	19.65
13.53	13.54	952	109	0.09	0.1354	4.635	1.905	6.740	0.635	10.2	1.700	19.65
13.55	13.57	952	109	0.09	0.1357	4.633	1.905	6.738	6.833	10.2	1.700	19.66
13.58	13.60	932	109	0.09	0.1360	4.831	1.905	6.737	6.831	10.2	1.700	19.66
13.61	13.63	932	109	0.09	0.1363	4.650	1.908	6.738	6.830	10.2	1.700	19.67
13.63	13.65	931	109	0.09	0.1365	4.823	1.908	6.731	6.823	10.2	1.700	19.68
13.65	13.67	932	109	0.09	0.1367	4.827	1.908	6.735	6.827	10.2	1.700	19.68
13.68	13.70	932	109	0.09	0.1370	4.826	1.908	6.734	6.826	10.2	1.700	19.69
13.71	13.73	932	109	0.09	0.1373	4.824	1.908	6.732	6.824	10.2	1.700	19.69
13.73	13.75	932	108	0.09	0.1375	4.823	1.911	6.734	6.823	10.2	1.700	19.70
13.76	13.78	932	108	0.09	0.1378	4.821	1.911	6.732	6.821	10.2	1.700	19.71
13.79	13.81	932	108	0.09	0.1381	4.820	1.911	6.730	6.820	10.2	1.700	19.71
13.82	13.83	981	108	0.09	0.1383	4.813	1.911	6.724	6.813	10.2	1.700	19.72
13.85	13.86	930	108	0.09	0.1386	4.806	1.911	6.717	6.806	10.2	1.700	19.73

Deformació	Deform. Unitaria	Celda	Presión de	Incremento deporos	Deform.	Esfuerzo Desviador	a'3 Efectivo	s'1 Efectivo	s1 Total	Lectura	Cambio	Area
n (mm)	×	Carga N	poros (kPa)	(kgf/cm²)	Unitaria	(kgf/cm²)	(kgt/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(cm³)	(cm³)	corregida
13.88	13.89	930	108	0.09	0.1389	4.804	1.911	6.715	6.804	10.2	1.700	19.73
13.91	13.92	930	108	0.09	0.1392	4.803	1.911	6.714	6.803	10.2	1.700	19.74
13.93	13.95	930	108	0.09	0.1395	4.801	1.914	6.715	6.801	10.2	1.700	19.75
13.96	13.97	929	108	0.09	0.1397	4.795	1.911	6.706	6.795	10.2	1.700	19.75
13.99	14.01	928	108	0.09	0.1401	4.788	1.911	6.698	6.788	10.2	1.700	19.76
14.01	14.03	929	108	0.09	0.1403	4.792	1.914	6.705	6.792	10.2	1.700	19.76
14.04	14.06	928	108	0.09	0.1406	4.785	1.914	6.698	6.785	10.2	1.700	19.77
14.07	14.09	928	108	0.09	0.1409	4.783	1.914	6.697	6.783	10.2	1.700	19.78
14.09	14.11	927	108	0.09	0.1411	4.777	1.914	6.690	6.777	10.2	1.700	19.78
14.12	14.14	927	108	0.09	0.1414	4.775	1.914	6.689	6.775	10.2	1.700	19.79
14.13	34.10	927	108	0.09	0.1410	4.779	1.014	6.686	6.779	10.2	1,700	10.00
14.17	14.19	927	108	0.00	0.1419	4.772	1.914	0.000	6.772	10.2	1.700	19.60
14.20	14.24	920	108	0.09	0.1424	4.700	1.914	6.683	6,730	10.2	1,700	19.61
14.25	14.26	926	108	0.09	0.1426	4.363	1 914	6.676	6.763	10.2	1 700	10.83
14.28	14.20	926	108	0.09	0.1420	4.361	1 914	6.675	6.261	10.2	1 700	10.83
14.31	14.32	926	108	0.09	0.1432	4,760	1,914	6,673	6,760	10.2	1,700	19.83
14.94	14.35	926	108	0.09	0.1435	4,758	1,914	6,672	6,758	10.2	1,700	19.84
14.36	14.37	926	108	0.09	0.1437	4.757	1.914	6.620	6.757	10.2	1,700	19.84
14.39	14,40	926	108	0.09	0.1440	4,755	1.914	6.669	6,755	10.2	1,700	19.85
14.42	14,43	926	108	0.09	0.1443	4,754	1.914	6.667	6.754	10.2	1,700	19.86
14,44	14,46	927	108	0.09	0.1446	4,757	1.914	6.671	6,757	10.2	1,700	19,86
14.47	14.48	926	108	0.09	0.1448	4.751	1.914	6.664	6.751	10.2	1.700	19.87
14.50	14.51	926	108	0.09	0.1451	4,749	1.914	6.663	6.749	10.2	1.700	19.88
14.52	14.54	927	108	0.09	0.1454	4.753	1.914	6.666	6.753	10.2	1.700	19.88
14.55	14.57	927	108	0.09	0.1457	4.751	1.914	6.665	6.751	10.2	1.700	19.89
14.57	14.59	927	108	0.08	0.1459	4.750	1.916	6.666	6.750	10.2	1.700	19.89
14.60	14.62	927	108	0.08	0.1462	4.748	1.916	6.665	6.748	10.2	1.700	19.90
14.63	14.65	926	108	80.0	0.1465	4.742	1.916	6.658	6.742	10.2	1.700	19.91
14.65	14.67	927	108	80.0	0.1467	4.745	1.916	6.662	6.745	10.2	1.700	19.91
14.68	14.70	927	108	80.0	0.1470	4.744	1.916	6.660	6.744	10.2	1.700	19.92
14.71	14.73	927	108	0.08	0.1473	4.742	1.916	6.659	6.742	10.2	1.700	19.93
14.74	14.75	927	108	80.0	0.1475	4.741	1.916	6.657	6.741	10.2	1.700	19.93
14.76	14.78	927	108	0.08	0.1478	4.739	1.916	6.656	6.739	10.2	1.700	19.94
14.79	14.80	927	108	0.08	0.1480	4.738	1.916	6.654	6.738	10.2	1.700	19.95
14.81	14.83	927	108	80.0	0.1483	4.737	1.916	6.653	6.737	10.2	1.700	19.95
14.84	14.85	926	108	0.08	0.1485	4.750	1.916	6.646	6.730	10.2	1.700	19.96
14.87	14.88	927	108	0.08	0.1488	4.733	1.916	6.650	6.733	10.2	1.700	19.96
14.89	14.91	925	108	0.08	0.1491	4.722	1.916	6.638	6.722	10.2	1.700	19.97
14.32	24.93	925	106	0.08	0.1495	4.720	1.919	6.639	6.720	10.2	1.700	19.96
14.07	24.30	340	108	0.08	0.1490	4,729	1,919	6.643	6.724	10.2	1,700	10.00
14.97	24.96	925	108	0.08	0.1496	4.717	1.910	6.640	6.717	10.2	1,700	19.99
15.01	15.08	925	108	0.08	0.1508	4.715	1,010	6.6%	6.715	10.2	1,700	20.00
15.04	15.06	925	108	0.08	0.1506	4.713	1,010	6.633	6.713	10.2	1,700	20.00
15.07	15.08	926	108	0.08	0.1508	4,717	1,919	6.636	6,717	10.2	1,700	20.01
15.09	15.11	926	108	0.08	0.1511	4,716	1,919	6.635	6,716	10.2	1,700	20.02
15.12	15.14	925	108	0.08	0.1514	4,709	1,919	6.628	6,709	10.2	1,700	20.02
15.15	15.16	925	108	0.08	0.1516	4,707	1.919	6.627	6.707	10.2	1.700	20.03
15.17	15.19	925	108	0.08	0.1519	4,706	1.919	6.625	6.706	10.2	1.700	20.04
15.20	15.21	926	108	0.08	0.1521	4,710	1.919	6.629	6.710	10.2	1.700	20.04
15.22	15.24	926	108	0.08	0.1524	4.708	1.919	6.628	6.708	10.2	1.700	20.05
15.25	15.26	926	108	0.08	0.1526	4.707	1.919	6.626	6.707	10.2	1.700	20.05
15.28	15.29	927	107	0.08	0.1529	4.710	1.922	6.632	6.710	10.2	1.700	20.06
15.30	15.31	927	107	80.0	0.1531	4.709	1.922	6.631	6.709	10.2	1.700	20.07
15.33	15.34	928	107	80.0	0.1534	4.713	1.922	6.635	6.713	10.2	1.700	20.07
15.36	15.37	928	107	80.0	0.1537	4.711	1.922	6.633	6.711	10.2	1.700	20.08
15.38	15.39	928	108	0.08	0.1539	4,710	1.919	6.629	6.710	10.2	1.700	20.09

Deformació	Deform. Unitaria	Celda	Presión de	Incremento deporos	Deform.	Esfuerzo Desviador	s'3 Efectivo	s'1 Efectivo	s1 Total	Lectura bureta	Cambio volumen	Area
in (mart)	*	Cargo in	porce (ione)	(kgi/cm <sup>*</sup> )	onicaria	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm²)	(cm³)	(cm <sup>3</sup> )	corregion
15.41	15.42	929	107	0.08	0.1542	4,713	1.922	6.635	6.713	10.2	1,700	20.09
15.43	15,44	930	107	0.08	0.1544	4,717	1.922	6.639	6.717	10.2	1.700	20.10
15.46	15.47	930	107	0.08	0.1547	4,715	1.922	6.637	6,715	10.2	1,700	20.10
15.48	15.50	930	107	0.08	0.1550	4,714	1.922	6.636	6.714	10.2	1,700	20.11
15.51	15.52	930	107	0.08	0.1552	4,713	1.922	6.635	6,713	10.2	1,700	20.12
15.54	15.55	930	107	0.08	0.1555	4,711	1.922	6.633	6.711	10.2	1,700	20.12
15.56	15.57	981	107	0.08	0.1557	4,715	1 922	6.637	6.715	10.2	1,700	20.13
15.59	15.60	930	107	0.08	0.1560	4,708	1.922	6.630	6,708	10.2	1,700	20.14
15.61	15.62	931	107	0.08	0.1562	4,712	1.922	6.634	6.712	10.2	1,700	20.14
15.64	15.65	931	107	0.08	0.1565	4,710	1.922	6.632	6,710	10.2	1,700	20.15
15.66	15.67	931	107	0.08	0.1567	4,709	1.922	6,631	6,709	10.2	1.700	20.15
15.69	15,70	932	107	0.08	0.1570	4,713	1.922	6.635	6.713	10.2	1,700	20.16
15,71	15.72	932	107	0.08	0.1572	4,711	1.922	6.633	6.711	10.2	1,700	20.16
15.74	15.75	932	108	0.08	0.1575	4,710	1.919	6.629	6.710	10.2	1.700	20.17
15,77	15,78	933	107	0.08	0.1578	4,713	1.922	6.635	6.713	10.2	1,700	20.18
15.79	15.80	932	107	0.08	0.1580	4,707	1.922	6.629	6,707	10.2	1,700	20.18
15.82	15.83	932	107	0.08	0.1583	4,705	1.922	6.627	6,705	10.2	1,700	20.19
15.84	15.85	932	107	0.08	0.1585	4,704	1.922	6.626	6,704	10.2	1,700	20.20
15.86	15.88	982	107	0.08	0.1588	4 208	1.922	6.625	6 208	10.2	1,700	20.20
15.89	15.90	931	107	0.08	0.1590	4.696	1.922	6.618	6.696	10.2	1,700	20.21
15.91	15.93	990	107	0.08	0.1598	4.690	1.922	6.612	6.690	10.2	1,700	20.21
15.04	18.05	990	107	0.08	0.1595	4.688	1 922	6.610	6.688	10.2	1 700	20.22
15.96	15.98	929	107	0.08	0.1598	4.682	1.922	6.604	6.682	10.2	1,700	20.23
15.08	16.00	928	107	0.08	0.1600	4.636	1 922	6.508	6.626	10.2	1 700	20.28
16.01	16.08	028	107	0.08	0.1608	4.674	1 022	6.506	6.674	10.2	1 700	20.24
16.03	16.05	928	107	0.08	0.1605	4.673	1.922	6.595	6.673	10.2	1,700	20.24
16.06	16.08	927	107	0.08	0.1608	4.666	1 922	6.588	6.666	10.2	1 200	20.25
16.08	16.10	927	107	0.08	0.1610	4.665	1 022	6.587	6.665	10.2	1 700	20.25
16.12	16.13	925	107	0.08	0.1613	4.653	1.922	6.575	6.653	10.2	1,700	20.26
16.14	16.16	925	107	0.08	0.1616	4.652	1 922	6.574	6.652	10.2	1,700	20.27
16.16	16.18	025	107	0.08	0.1618	4.651	1.035	6.575	6.651	10.2	1 700	20.27
16.19	16.21	904	107	0.08	0.1621	4.644	1.925	6,569	6.644	10.2	1,700	20.28
16.22	16.28	804	107	0.08	0.1628	4.642	1 935	6.567	6.642	10.2	1 200	20.20
16.34	16.26	804	107	0.08	0.1636	4.641	1 035	6 546	6.641	10.2	1 700	20.20
16.27	16.29	928	107	0.08	0.1629	4.635	1.925	6,550	6.635	10.2	1,700	20.30
16.30	16.31	928	107	0.08	0.1631	4 633	1 925	6.558	6.633	10.2	1 700	20.31
16.33	16.34	922	107	0.08	0.1634	4.626	1.925	6.551	6.626	10.2	1,700	20.32
16.95	16.36	922	107	0.07	0.1636	4.625	1 928	6.553	6.625	10.2	1 700	20.92
16.97	16.30	977	107	0.07	0.1639	4.634	1 938	6.552	6.624	10.2	1 700	20.93
16.40	16.41	921	107	0.07	0.1641	4.617	1.928	6.545	6.617	10.2	1,700	20.33
16.43	16.44	922	107	0.07	0.1644	4.621	1 928	6.548	6.621	10.2	1,700	20.34
16.46	16.47	921	107	0.07	0.1647	4.614	1 938	6.542	6.614	10.2	1 700	20.95
16.48	16.49	921	107	0.07	0.1649	4,613	1,928	6.540	6,613	10.2	1,700	20.95
16.51	16.52	921	107	0.07	0.1652	4,600	1 978	6.537	6,609	10.9	1.600	20.97
16.54	16.85	921	107	0.07	0.1655	4.607	1 938	6.535	6.607	10.3	1.600	20.38
16.56	16.57	921	107	0.07	0.1657	4.606	1.928	6.534	6.606	10.3	1.600	20.38
16.59	16.60	921	106	0.07	0.1660	4,605	1,930	6.535	6,605	10.3	1,600	20.99
16.61	16.63	921	107	0.07	0.1668	4.608	1,038	6.531	6,603	10.8	1.600	20.40
16.64	16.66	922	107	0.07	0.1666	4.606	1.928	6.534	6.606	10.3	1.600	20.40
16.66	16.68	921	107	0.07	0.1668	4,600	1,938	6.528	6,600	10.3	1,600	20.41
16.60	16.71	022	107	0.07	0.1671	4.004	1,018	6.521	6.004	10.9	1.000	20.42
16.73	16.74	922	107	0.07	0.1674	4,600	1.028	6.530	6,602	10.3	1.600	20.42
16.74	16.76	922	107	0.07	0.1676	4.601	1,028	6,528	6.601	10.3	1,600	20.48
16.77	16.70	000	100	0.07	0.1670	4,004	1,020	6.525	6.004	10.9	1,000	20,44
16.77	16.82	923	106	0.07	0.1679	4.004	1.930	6.535	6,004	10.3	1.600	20.44
16.00	10.02	323	100	0.07	0.1092	4,000	1,000	6,530	6.000	10.0	1.000	20,49
10.02	10.09		107	0.07	0.1009	4,001	1,020	6.529	6.001	10.3	1.000	20,45
16.85	16.67	923	107	0.07	0.1687	4.000	1.928	6.527	6.600	10.3	1.600	20.45
10.03	36.90	344	107	0.07	011030	4,393	1.328	6.320	0.393	10/2	1.000	20,40

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	Deform.			Incremento		Esfuerzo	13	s'1	51	Lectura	Cambio	
Deformació n (mm)	Unitaria	Celda	Presión de	deporos	Deform.	Desviador	Efectivo	Efectivo	Total	bureta	volumen	Area
in (mini)	*	Cargo in	porce (iona)	(kgl/cm <sup>*</sup> )	Onicaria	(kgf/cm <sup>*</sup> )				(cm <sup>3</sup> )	(cm <sup>3</sup> )	corregion
							(kgf/cm*)	(kgt/cm*)	(kgf/cm*)			
16.91	16.93	923	107	0.07	0.1693	4.597	1.928	6.524	6.597	10.3	1.600	20.47
16.94	16.95	923	106	0.07	0.1695	4.595	1.930	6.525	6.595	10.3	1.600	20,48
16.97	15.96	923	107	0.07	0.1698	4.593	1.928	6.521	6.593	10.3	1.600	20.48
17.02	17.00	924	107	0.07	0.1208	4.597	1.928	6,525	6.597	10.3	1.600	20.49
17.05	17.06	904	107	0.07	0.1706	4,594	1.928	6.521	6.594	10.3	1.600	20.50
17.08	17.10	924	107	0.07	0.1710	4,502	1.928	6.520	6.592	10.3	1.600	20.51
17.10	17.12	924	107	0.07	0.1712	4.501	1.928	6.518	6.591	10.3	1.600	20.52
17.13	17.15	925	107	0.07	0.1715	4.594	1.928	6.522	6.594	10.3	1.600	20.52
17.16	17.18	925	107	0.07	0.1718	4.593	1.928	6.520	6.593	10.3	1.600	20.53
17.19	17.21	924	107	0.07	0.1721	4.586	1.928	6.514	6.586	10.3	1.600	20.54
17.22	17.23	925	107	0.07	0.1723	4.589	1.928	6.517	6.589	10.3	1.600	20.55
17.25	17.26	925	107	0.07	0.1726	4.588	1.928	6.515	6.588	10.3	1.600	20.55
17.27	17.28	925	107	0.07	0.1728	4.587	1.928	6.514	6.587	10.3	1.600	20.56
17.30	17.31	926	107	0.07	0.1731	4.590	1.928	6.517	6.590	10.3	1.600	20.57
17.33	17.34	926	106	0.07	0.1734	4.588	1.930	6.519	6.588	10.3	1.600	20.57
17.35	17.37	327	100	0.07	0.1740	4.592	1.950	6.522	6.592	10.3	1.600	20.56
17.30	17,40	327	106	0.07	0.1740	4.300	1.920	6.510	6.590	10.3	1.600	20.59
17.44	17.46	927	106	0.07	0.1746	4.587	1.930	6.517	6.587	10.3	1.600	20.59
17.46	17,48	926	106	0.07	0.1748	4.581	1.930	6.511	6.581	10.3	1.600	20.61
17,49	17.51	927	106	0.07	0.1751	4.584	1.930	6.514	6.584	10.3	1.600	20.61
17.52	17.54	926	106	0.07	0.1754	4.577	1.930	6.508	6.577	10.3	1.600	20.62
17.54	17.56	926	106	0.07	0.1756	4.576	1.930	6.507	6.576	10.3	1.600	20.63
17.57	17.59	925	106	0.07	0.1759	4.570	1.930	6.500	6.570	10.3	1.600	20.63
17.60	17.62	925	106	0.07	0.1762	4.568	1.930	6.498	6.568	10.3	1.600	20.64
17.63	17.64	925	106	0.07	0.1764	4.566	1.930	6.497	6.566	10.3	1.600	20.65
17.66	17.67	926	106	0.07	0.1767	4.570	1.933	6.503	6.570	10.3	1.600	20.66
17.68	17.70	925	106	0.07	0.1770	4.563	1.933	6,496	6.563	10.3	1.600	20.66
17.71	17.72	925	106	0.07	0.1772	4.562	1.933	6,495	6.562	10.3	1.600	20.67
17.75	17.75	925	106	0.07	0.1775	4.560	1.933	6,494	6.560	10.3	1.600	20.68
17.70	17.81	925	106	0.07	0.1781	4 557	1 033	6,490	6.557	10.3	1.600	20.69
17.82	17.84	925	106	0.07	0.1784	4 550	1 988	6,489	6.556	10.3	1.600	20.00
17.84	17.86	925	106	0.07	0.1786	4.554	1.933	6,487	6.554	10.3	1.600	20.70
17.87	17.89	925	106	0.07	0.1789	4.553	1.933	6.486	6.553	10.3	1.600	20.71
17.90	17.92	924	106	0.07	0.1792	4.546	1.933	6.479	6.546	10.3	1.600	20.72
17.93	17.95	925	106	0.07	0.1795	4.550	1.933	6.483	6.550	10.3	1.600	20.73
17.95	17.97	925	106	0.07	0.1797	4.548	1.930	6.479	6.548	10.3	1.600	20.73
17.98	18.00	924	106	0.07	0.1800	4.542	1.933	6.475	6.542	10.3	1.600	20.74
18.01	18.03	925	106	0.07	0.1803	4.543	1.930	6.473	6.543	10.4	1.500	20.76
18.04	18.05	925	106	0.07	0.1805	4.541	1.933	6.474	6.541	10.4	1.500	20.76
18.06	18.08	925	106	0.07	0.1808	4.540	1.930	6.470	6.540	10.4	1.500	20.77
18.09	18.10	925	106	0.07	0.1810	4.543	1.930	6,474	6.543	10.4	1.500	20.76
18.12	18.16	926	106	0.07	0.1816	4.542	1,990	6.471	6.540	10.4	1.500	20.78
18.17	18.19	926	106	0.07	0.1819	4,530	1,930	6,449	6,599	10.4	1.500	20.80
18.20	18.22	926	106	0.07	0.1822	4,537	1,930	6,467	6,537	10.4	1.500	20.81
18.22	18.24	927	106	0.07	0.1824	4.541	1.930	6.471	6.541	10.4	1.500	20.81
18.25	18.27	927	106	0.07	0.1827	4.539	1.930	6.469	6.539	10.4	1.500	20.82
18.28	18.30	927	106	0.07	0.1830	4.537	1.930	6.468	6.537	10.4	1.500	20.83
18.31	18.33	928	106	0.07	0.1833	4.541	1.930	6.471	6.541	10.4	1.500	20.83
18.33	18.35	927	106	0.07	0.1835	4.535	1.930	6.465	6.535	10.4	1.500	20.84
18.36	18.38	928	106	0.07	0.1838	4.538	1.930	6.468	6.538	10.4	1.500	20.85
18.39	18.41	929	106	0.07	0.1841	4.541	1.930	6.472	6.541	10.4	1.500	20.85
18.42	18,44	929	106	0.07	0.1844	4.540	1.930	6.470	6.540	10.4	1.500	20.86
18.44	18.46	930	106	0.07	0.1846	4.543	1.930	6.474	6.543	10.4	1.500	20.87
18.47	18,49	930	107	0.07	0.1849	4.542	1.928	6.469	6.542	10.4	1.500	20.87

Deformació n (mm)	Deform. Unitaria	Celda Carga N	Presión de poros (kPa)	Incremento deporos	Deform. Unitaria	Exfuerzo Desviador	s'3 Efectivo	s'1 Efectivo	s1 Total	Lectura bureta	Cambio volumen	Area corregida
	*			(kgt/cm*)		(kgf/cm*)	(kgt/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(kgf/cm <sup>2</sup> )	(cm*)	(cm*)	
18,49	18.51	931	106	0.07	0.1851	4.545	1.930	6,476	6.545	10.4	1.500	20.88
18.52	18.54	931	106	0.07	0.1854	4.544	1.930	6.474	6.544	10.4	1.500	20.89
18.54	18.56	931	106	0.07	0.1856	4.542	1,930	6,473	6.542	10,4	1.500	20.89
18.57	18.59	931	106	0.07	0.1859	4.541	1,930	6.471	6.541	10.4	1.500	20.90
18.59	18.61	931	106	0.07	0.1861	4,540	1,930	6.470	6.540	10.4	1,500	20.91
18.62	18.64	930	106	0.07	0.1864	4 533	1 930	6.463	6.533	10.4	1.500	20.91
18.65	18.67	981	106	0.07	0.1867	4 536	1 930	6.467	6.536	10.4	1.500	20.92
18.67	18.69	990	106	0.07	0.1869	4,530	1,930	6.461	6,530	10.4	1.500	20.98
18.69	18.71	981	106	0.07	0.1871	4 534	1 930	6.464	6.534	10.4	1.500	20.98
18.73	18.74	081	106	0.07	0.1874	4 532	1 030	6.463	6.693	10.4	1,500	20.04
18.75	18.77	930	106	0.07	0.1877	4,536	1.033	6,450	6.636	10.4	1.500	20.04
10.70	10.00	000	100	0.07	0.1990	4,520	1,000	6,455	6.524	10.4	1.500	20.05
10.70	10.00	330	106	0.07	0.1000	4.524	1.930	6,455	0.529	10.4	1.500	20.35
18,80	18.82	928	106	0.07	0.1882	4.513	1.950	6.444	6.513	10.4	1.500	20.95
10.03	10.00	3400	106	0.07	0.1000	4.512	1.933	6,445	0.512	10.4	1.500	20.37
18.80	10.07	940	106	0.07	0.1667	4.510	1.950	0.440	6.510	10.4	1.500	20.97
16.85	18.90	927	106	0.07	0.1890	4.504	1.933	6.437	6.504	10.4	1.500	20.98
18.91	38.92	325	106	0.07	0.1892	4,498	1.933	6.431	0.496	10.4	1.500	20.99
18.95	18.95	925	106	0.07	0.1895	4.491	1.933	6.424	6.491	10.4	1.500	21.00
18.96	18.98	924	106	0.07	0.1898	4.485	1.933	6.418	6.485	10.4	1.500	21.00
18.98	19.00	925	106	0.07	0.1900	4.488	1.933	6.421	6.488	10.4	1.500	21.01
19.01	19.03	924	106	0.07	0.1903	4.480	1.953	6.413	6.480	10.5	1.400	21.03
19.04	19.06	924	106	0.07	0.1906	4.478	1.933	6.411	6.478	10.5	1.400	21.03
19.06	19.08	924	106	0.07	0.1908	4,477	1.930	6.407	6.477	10.5	1.400	21.04
19.09	19.11	924	106	0.07	0.1911	4.475	1.933	6.408	6.475	10.5	1.400	21.05
19.11	19.13	924	106	0.07	0.1913	4.474	1.933	6.407	6.474	10.5	1.400	21.05
19.14	19.16	924	106	0.07	0.1916	4,473	1.930	6.403	6.473	10.5	1.400	21.06
19.17	19.19	923	106	0.07	0.1919	4.466	1.930	6.396	6.466	10.5	1.400	21.07
19.20	19.22	924	106	0.07	0.1922	4.469	1.933	6.402	6.469	10.5	1.400	21.07
19.23	19.25	924	106	0.07	0.1925	4.468	1.930	6.398	6.468	10.5	1.400	21.08
19.25	19.27	924	106	0.07	0.1927	4.467	1.930	6.397	6.467	10.5	1.400	21.09
19.28	19.30	925	106	0.07	0.1930	4.470	1.930	6,400	6.470	10.5	1.400	21.10
19.30	19.32	924	106	0.07	0.1982	4.464	1.930	6.394	6.464	10.5	1.400	21.10
19.33	19.35	924	106	0.07	0.1935	4.462	1.930	6.392	6.462	10.5	1.400	21.11
19.36	19.38	924	106	0.07	0.1938	4.461	1.930	6.391	6.461	10.5	1.400	21.12
19.39	19.41	923	106	0.07	0.1941	4.454	1.930	6.384	6.454	10.5	1.400	21.12
19.41	19.43	924	106	0.07	0.1943	4.458	1.930	6.388	6.458	10.5	1.400	21.13
19.44	19.46	923	106	0.07	0.1946	4.451	1.930	6.382	6.451	10.5	1.400	21.14
19.46	19.48	924	106	0.07	0.1948	4.455	1.930	6.385	6.455	10.5	1.400	21.14
19,48	19.50	924	106	0.07	0.1950	4,454	1.930	6.384	6.454	10.5	1.400	21.15
19.51	19.53	923	106	0.07	0.1953	4.447	1.930	6.378	6.447	10.5	1.400	21.16
19.54	19.56	924	106	0.07	0.1956	4,451	1.930	6.381	6.481	10.5	1,400	21.16
19.57	19.59	924	106	0.07	0.1959	4,449	1,930	6.379	6.449	10.5	1.400	21.17
19.59	19.61	923	106	0.07	0.1961	4.443	1.930	6.373	6.443	10.5	1.400	21.18
19.62	19.64	924	107	0.07	0.1964	4,446	1.928	6.374	6.446	10.5	1.400	21.18
19.65	19.67	923	106	0.07	0.1967	4,440	1,930	6,370	6.440	10.5	1,400	21.19
19.67	19.69	923	106	0.07	0.1969	4,439	1.930	6,369	6.439	10.5	1.400	21.20
19.70	19.72	924	106	0.07	0.1972	4,442	1,930	6.372	6.442	10.5	1,400	21.21
19.72	19.74	924	106	0.07	0.1974	4.440	1,930	6.371	6,440	10.5	1.400	21.21
19.75	19.77	924	106	0.07	0.1977	4,439	1,930	6,369	6,439	10.5	1,400	21.22
19.77	19.79	925	106	0.07	0.1979	4.442	1,930	6.372	6,442	10.5	1.400	21.28
19.80	19.82	924	106	0.07	0.1982	4.4%	1,930	6.366	6.0%	10.5	1,600	21.28
19.82	19.84	925	107	0.07	0.1984	4,430	1,928	6.367	6,499	10.5	1,400	21.24
10.95	10.07	976	106	0.07	0.1087	4,000	1,020	6.969	6.000	10.5	1,000	21.25
10.00	10.00	825	100	0.07	0.1000	4,000	1,000	6.967	6,000	10.5	1,000	21.25
19.86	10.00	20	106	0.07	0.1000	4,430	1,930	6.367	6.435	10.5	1,400	21.25
10.00	10.02	200	100	0.07	0.1005	4,430	1,000	6.350	6,000	10.5	1,000	24.20
19.95	13,35	349	106	0.07	0.1995	4,429	1.930	6.359	6.429	10.5	1.400	24.27
19.95	19.97	925	106	0.07	0.1997	4.432	1.930	6.362	6.432	10.5	1.400	21.27
19.96	20000	345	106	0.07	0.000	4.431	1,330	0.361	0.431	10.5	1.400	41.25
Deformació n (mm)	Deform. Unitaria X	Celda Carga N	Presión de poros (kPa)	Incremento deporos (kgf/cm²)	Deform. Unitaria	Eafuerzo Desviador (kgf/cm²)	s'3 Efectivo (kgf/cm <sup>2</sup> )	s'1 Efectivo (kgf/cm <sup>3</sup> )	s1 Total (kgf/cm <sup>2</sup> )	Lectura bureta (cm <sup>3</sup> )	Cambio volumen (cm <sup>3</sup> )	Area corregida
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20.00	20.02	925	106	0.07	0.2002	4.430	1.930	6.360	6.430	10.5	1.400	21.29
EQUIPO EMPLEADO NOMBRE DEL EQUIPO NÚMERO DE INVENTARIO FECHA DE CALIBRACIÓN												
TRIAXAL ESTÀTICO CONTROLS PRENSA HUMBOLDT HM 3000				8110700 25690			9-2-2012 15-9-2011					
BALANZA METTLER TOLEDO				23060			2-6-2011				1	
HORNO SECADO CONTROLS				8110300			23-5-2012					
LVDT				MG 2785			13-9-2011					
CALIBRADOR MITUTOYO				SCP N#6			12-12-2011					
CELDA DE CARGA HUMBOLDT				29563			29-9-2011					