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Transportation Technical Reports

2001 WisDOT Specifications - Marquette Staff Introduction

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INTRODUCTION BY MARQUETTE TEAM - WISDOT TEXTURING SPECIFICATION

The report "Noise and Texture on PCC Pavements - Results of a Six State Study" recommended a random rake pattern varying from 10 mm to 76 mm (3" maximum spacing).

In order to obtain a greater estimated texture depth (ETD) as discussed in the report, Wisconsin has implemented a random rake pattern varying from 10 mm to 51 mm (2" maximum spacing). This rake pattern has been found to be satisfactory, and agencies desiring to use same may find the spacings of the individual tines on the rake contained in either document. The recommended rake is a 10' wide rake. The 10' dimension insures most passenger cars will have a different tine spacing under each axle, since wheel bases for most are under 10'.

The first is the "2001 Construction Notes" which covered projects during the first year of this new specification, and has some of the background contained therein. Wisconsin allows contractors to use either the skewed and transverse tined pattern recommended in the research results.

The second report is the revised "Part 8.10, WisDOT Construction and Materials Manual" on concrete pavement texturing. Both have the revised tine rake pattern, with center to center dimensions in mm (metric). It should be noted that this pattern controls the tining rake, not the finished tine pattern in the pavement, which may vary because of the twisting and bending of the tines.

Users are referred to the WisDOT documents for exact wording and should use those for reference.