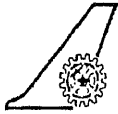


National Aerospace Laboratories

Studies on Fire Protection Scheme for Engine Bulkhead of HANSA-3 Prototype II Aircraft

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Contents	Pages	10	Figures	1	Tables	2	Annexures: -
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Abstract:

The firewall used in Hansa - 3 Prototype II is a stainless steel of 0.4 mm thickness. JAR-VLA requirement on the firewall is that a stainless steel be atleast of 0.38mm thickness. Behind this firewall there is an engine bulkhead made of plywood of 8mm thickness and of fire resistant quality, covered on either side by 2 layers of bidirectional glass cloth with epoxy resin system of aircraft quality. It is essential to demonstate that the engine bulk head is not adversely affected by a flame temperature of 1100°C for 15 minutes.