

Reference	FM 4.76 Rev 1
Release Date	October 2013



## Fire Protection Systems Information

# 30 minute Load-bearing Composite Deck

GRE/PVC Sandwich Panel Type

**Fire towards Insulated Side Only**

Profile Wrap System

Accompanies Method Statement FM-MS 05 PW

<b>Product</b>	FireMaster Marine Plus Blanket
<b>Application Requirements</b>	60mm x 64 kg/m <sup>3</sup> applied in one single layer on deck plate. 85mm (60mm x 64 kg/m <sup>3</sup> + 25mm x 64 kg/m <sup>3</sup> ) applied over stiffeners
<b>Anchoring</b>	3 mm diameter screw-fixed steel anchors 12 to 25mm longer than blanket thickness. Friction fit retaining washers.
<b>Weight</b>	3.84 kg/m <sup>2</sup> applied to flat area 5.44 kg/m <sup>2</sup> applied over stiffeners
<b>System Drawing Reference</b>	FM CAD11-4.76
<b>System Features</b>	<ul style="list-style-type: none"> <li>Fully fire tested as a load-bearing system under IMO MSC 45 (65) Fire Test Procedure.</li> <li>Can be used on any sandwich panel design of greater strength</li> </ul>
<b>Certification</b>	EU MED (DNV) DNV

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### Detail of Stiffener Beam Insulation

**FM CAD 11-4.76. 30 minute high speed craft loadbearing FRP composite deck**

Tested in accordance with IMO resolution MSC 45 (65)

**Deck Construction**

Sandwich Panel consisting of DIAB Divinycell H80 core 30mm and glass fibre laminate with Polyester Resin. Stiffeners constructed of 60mm Divinycell H80 with glass fibre laminate and Polyester Resin.

**Fire Insulation System**

Thermal Ceramics FireMaster Marine Plus Blanket.

Insulation on deck : One layer of 60mm x 64 kg/m<sup>3</sup> with compressed butt-joints.

Insulation on stiffener beams: 85mm x 64 kg/m<sup>3</sup> installed in two layers (25mm + 60mm)

**Anchor Pins**

Screw-fix pins with stainless steel base and either stainless steel or mild steel shaft with friction fit washers. Length on deck - 75mm. Length on Stiffener beams - 95mm.

**Detail of Stiffener Beam Insulation and anchor pattern**