

Reference	FM 4.73 Rev 1
Release Date	October 2013



## Fire Protection Systems Information

# 60 minute Load-bearing Composite Bulkhead

GRE/PVC Sandwich Panel Type

Fire towards Insulated Side Only

Profile Wrap System

Accompanies Method Statement FM-MS 05 PW and Design Information Sheet FM-DI-C01

<b>Product</b>	FireMaster Marine Plus Blanket & FireMaster Marine Plus ALU Blanket
<b>Application Requirements</b>	<p>100mm thick lining applied in four layers as follows:</p> <ol style="list-style-type: none"> <li>One layer 25mm FireMaster Marine Plus ALU Blanket 64 kg/m<sup>3</sup></li> <li>Two layers of 25mm FireMaster Marine Plus ALU Blanket 70 kg/m<sup>3</sup></li> <li>One layer of 25mm FireMaster Marine Plus Blanket 70 kg/m<sup>3</sup></li> </ol> <p>See system drawing for exact configuration</p>
<b>Anchoring</b>	3 mm diameter screw-fixed steel anchors 12 to 25mm longer than blanket thickness. Friction fit retaining washers.
<b>Weight</b>	6.85 kg/m <sup>2</sup> (applied to flat area)
<b>System Drawing Reference</b>	FM CAD06-4.72
<b>System Features</b>	<ul style="list-style-type: none"> <li>Fully fire tested as a load-bearing system under IMO MSC 45 (65).</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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**FMCAD 06-4.73**  
**IMO HSC Code - MSC 45 (65)**  
**60 minute Loadbearing Composite Bulkhead**

**COMPOSITE CONSTRUCTION**

- 1600 g/m<sup>2</sup> Biaxial 0/90
- 50mm Divinycell H80 core
- 1200 g/m<sup>2</sup> Biaxial 0/90
- Overall Thickness 52.04mm
- Iso Polyester resin  $t_g=80\text{ C}$

**INSULATION CONSTRUCTION**

- FireMaster Marine Plus Blanket applied in four layers.
- Layer 1: 25mm thick 64 kg/m<sup>3</sup> with layer of aluminium foil
- Layer 2 and Layer 3: 25mm x 70 kg/m<sup>3</sup> with aluminium foil
- Layer 4: 25mm x 70 kg/m<sup>3</sup> without aluminium foil

**ANCHORING**

- Self drilling stainless steel anchors 3mm diameter with 25mm thread and 38mm diameter friction fit washers.
- Total length of anchor 155mm (125mm anchor shaft length + 30mm screw)

(Refer to Detail "A")

