Product Information Sheet



FyreWrap® Lightweight A-Class Steel (A60) Marine Fire Divisions

Description

FyreWrap® Blanket from Unifrax is a totally inorganic, flexible and lightweight high temperature insulation blanket. It is specifically designed for maximum performance in passive fire protection applications and for use in FyreWrap Marine systems.

The FyreWrap blanket lightweight fire divisions have been tested to 2010 IMO FTP code and provide some of the lightest and thinnest A60 steel bulkhead and deck systems available today.

General Characteristics

FyreWrap Lightweight Marine Fire Divisions have the following outstanding characteristics:

- · A60 fire rated steel divisions
- Tested in accordance with IMO MSC.307(88)
- International certification and approvals
- Non Combustible to IMO FTP Code Part 1
- · Combined fire, thermal and acoustic insulation
- Flexible blanket, with a choice of protective surface coverings
- · Easily wrapped to corrugated or stiffened plate profiles
- · Minimal cutting required
- · Reliable mechanical fixings, no adhesive required
- New wider pin spacings for more flexible installation
- · Full technical support available
- Global manufacturing and availability



Typical Applications Passive fire protection

Marine Applications

- Cruise liners
- Military/Naval vessels
- Luxury yachts
- Fast craft

Offshore Applications

- Oil platforms
- FPSO Units (Floating production storage & offloading)
- · Accommodation modules



Advantages

- · Significant weight reduction
- · Thin systems add space for design
- · Reduce fuel consumption
- Lower emissions
- Increase speed
- · Improve vessel efficiency



Typical Product Parameters

	FyreWrap Blanket		
Typical Chemical Analysis (wt. %)			
SiO ₂	61.0 – 67.0		
CaO	27.0 – 33.0		
MgO	2.5 – 6.5		
Al ₂ O ₃	<1.0		
Fe ₂ O ₃	<0.6		
Physical Properties			
Colour	White		
Classification Temperature (C°)*	1200		
Melting Point (C°)	>1330		
Mean Fibre Diameter (microns)	4.0		
Density (kg/m³)	64	96	
Thermal Conductivity (W/mK) – ASTM C201			
Mean Temp.			
200°C	0.08	0.07	
400°C	0.12	0.11	
600°C	0.18	0.17	
800°C	0.27	0.26	
1000°C	0.43	0.36	
Ambient Insulation Performance*			
Blanket Thickness (mm)	R Value	U Value	
25	0.78	1.28	
38	1.19	0.84	
45	1.41	0.71	
50	1.59	0.63	
55	1.72	0.58	
63	1.96	0.51	
Acoustic Insulation Properties			
Please refer to Marine & Offshore Fire Divisions Man	nual for Acoustic information		

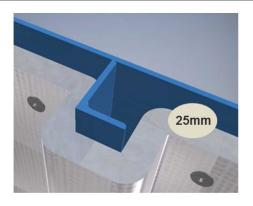
^{*}Based on thermal conductivity of FyreWrap Blanket 64 kg/m³ density measured to BS EN 12667 at 10°C of 0.0319 W/mK. For blanket densities above 64kg/m³ the same values may be used.

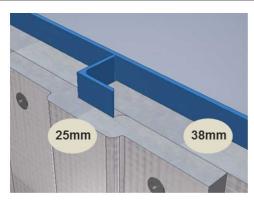


System summary

A60 Steel Deck		
Insulation thickness (mm)	25	
Insulation Density (kg/m³)	64	
Weight (kg/m²)	1.6	
Insulation over stiffener (mm)	25	
Insulation Profile Wrapped		

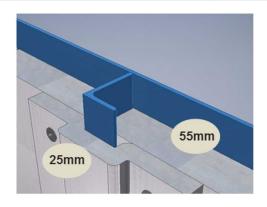
A60 Steel Bulkhead		
Insulation thickness (mm)	38	
Insulation Density (kg/m³)	96	
Weight (kg/m²)	3.64	
Insulation over stiffener (mm)	25	
Stiffener 300mm Strip Density (kg/m³)	96	

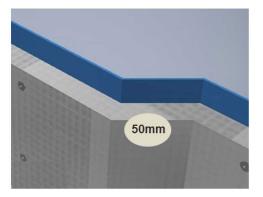




A60 Steel Bulkhead		
Insulation thickness (mm)	55	
Insulation Density (kg/m³)	64	
Weight (kg/m²)	3.52	
Insulation over stiffener (mm)	25	
Stiffener 265mm Strip Density (kg/m³)	64	

A60 Steel Bulkhead (Corrugated)		
Insulation thickness (mm)	50	
Insulation Density (kg/m³)	64	
Weight (kg/m²)	3.2	
No stiffeners		
Insulation Profile Wrapped		





Features

New wider pin spacings Quick and easy installation

Lightweight

Completely inorganic, with no resin binders, no potential for outgassing

Superior vibration resistance compared to mineral or stone wool products that contain organic binders





Availability

Thickness (mm)			Roll Length (m)
	64	96	
25	✓	✓	7.32
38		✓	5.00
50	✓		3.66
55	1		3.66

Standard roll width is 610mm. Other sizes may be available on request subject to minimum order requirements.

Handling Information

A Safety Data Sheet (SDS) has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on handling precautions and emergency procedures. This must be consulted and fully understood before handling, storage or use.

Insulfrax fibre has a high solubility in simulated body fluids and hence carries no hazard classification, meeting stringent European regulatory requirements. Insulfrax fibres are exonerated from classification as hazardous (tested according to Note Q regulation (EC) No. 1272/2008).

For additional information about product performance or to identify the recommended product for your application, please email the Unifrax Application Engineering Group: applicationengineering@unifrax.com.

Or telephone: +44 (0)1744 887625.

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