FyreWrap®
Fire protection materials

Marine, Offshore & Industrial

Passive Fire Protection with Integrity and Trust

UNIFRAX

NEW

FyreWrap® LT Blanket

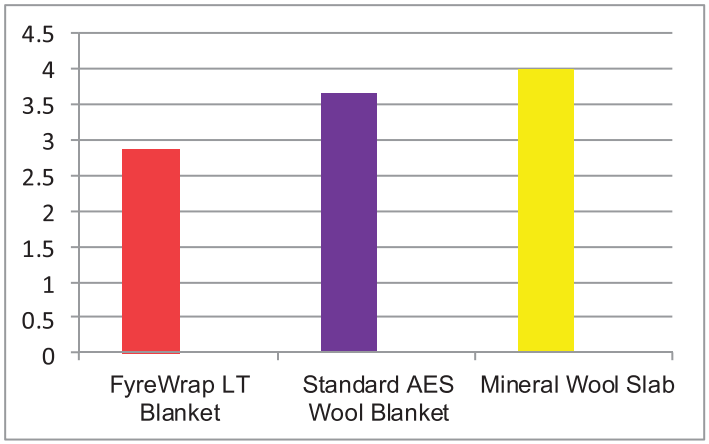
- More fibre
- Less shot
- Higher strength
- Softer feel
- Less dust
- Better handling

Saving Weight

FyreWrap LT Blanket from Unifrax is a new lightweight & flexible insulation blanket designed specifically to provide designers with a weight saving option when used in passive fire protection systems.

Manufactured from Insulfrax low bio-persistence fibres, FyreWrap LT Blanket is the latest addition to the range of high performance passive fire protection products from Unifrax. The weight saving possibilities when compared with previous AES fibre products and more importantly typical mineral wool products are significant, up to and above 50% in some cases, which can be translated into increased payloads, reduced fuel consumption and reduction in greenhouse gas emissions.

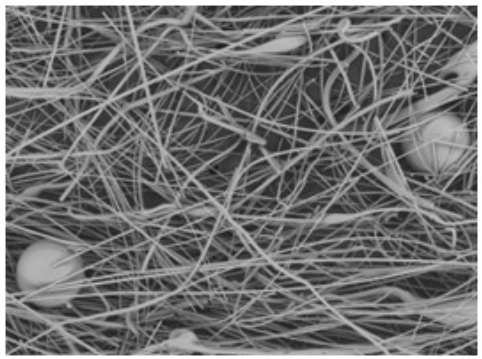
An Example: IMO A60 Restricted Use Steel Bulkhead System Kg/m²



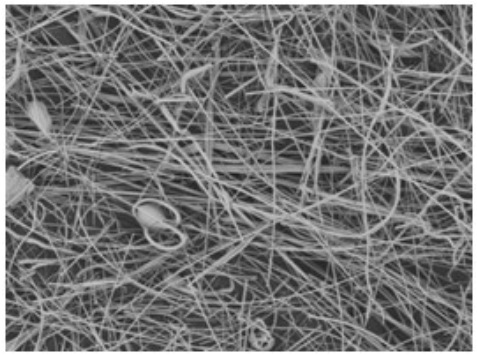
Raising standards - Saving weight

NEW FyreWrap® LT Blanket

Standard AES wool
Large Unfiberised "Shot"



FyreWrap LT Blanket
More & Finer Fibre and Less Shot



New process developments bringing greater control of fibre manufacturing have given us a product with an improved fibre to shot ratio, finer fibre and reduced shot size.

FyreWrap LT Blanket contains up to 30% more fibres than standard AES fibre blankets. This higher fibre content gives the blanket its outstanding insulation characteristics which deliver the weight savings in passive fire protection applications.

More fibres also mean higher handling strength and resilience which coupled with the lower shot deliver a product which is easier to install and softer to the touch.

Marine & Offshore Systems

A family of high performance passive fire protection systems specifically designed to meet the stringent requirements demanded for applications in the marine and offshore industries.

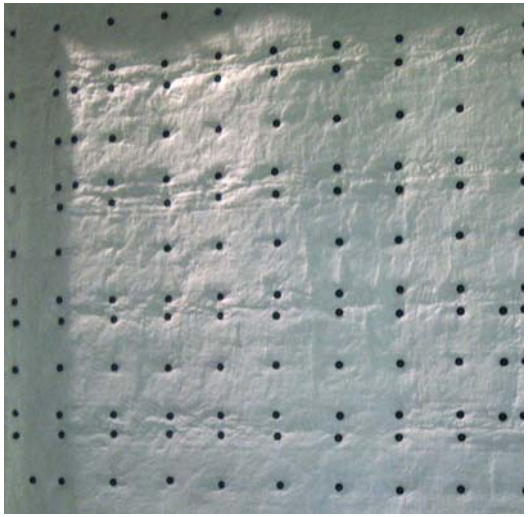
The first choice passive fire protection options in the marine and offshore environment with applications ranging from oil rigs to cruise ships, from submarines to fast ferries, from FPSOs to super yachts. FyreWrap Systems have been tested and certified for use in a wide variety of applications worldwide.

FyreWrap® Marine and Offshore Systems

Technical Performance

FyreWrap deck and bulkhead systems comprise FyreWrap and FyreWrap LT Blankets held in place with CD welded insulation pins. There is no binder to burn out so no smoke or fumes are generated. The blanket can be supplied with an aluminium foil facing to act as a vapour barrier. All versions are rated as non combustible to the IMO requirements.

The systems are lightweight and flexible and are very easy to install so offering cost effective solutions to designers, installers and operators.



Approvals

The range of approved systems is increasing all the time and systems are currently available for use with both steel and aluminium structures. Certification is available from Lloyds Register of Shipping and Bureau Veritas with ratings from B15 (bulkhead extension) to H120.

B & A Class systems are MED approved.

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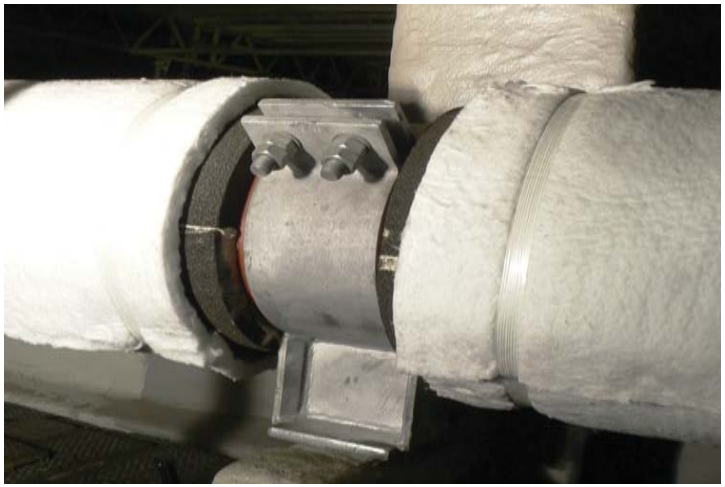
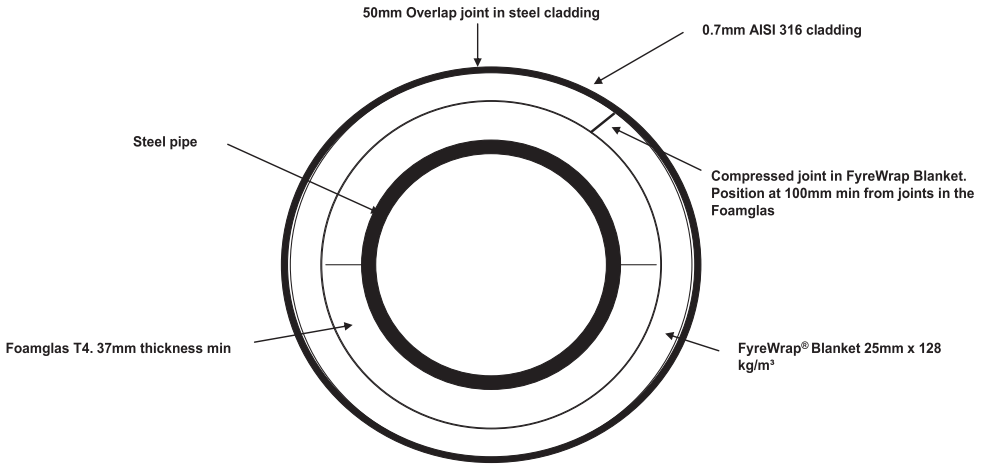
The FyreWrap J60 System is designed to provide protection against jet fires to pipes and structural steel tubular sections in industrial and offshore facilities. Tested to the OTI 95 634 "Jet Fire Resistance Test of Passive Fire Protective Materials", this system will withstand jet fires for up to 60 minutes and beyond, having a 66 minute integrity rating.

The system has Lloyds Register certification for use up to 66 minutes in offshore installations and it complies with the requirements of the NORSOK Class 5. The 60 minute rating applies to pipes and hollow members up to 500mm diameter and with an Hp/A ≤ 130.



FyreWrap® J60 Pipe System



System Components

The inner layer in contact with the pipe or structural member is a 37mm layer of Foamglas® T4 pipe sections sealed at the joints with a silicone mastic.

The middle layer is a 25mm x 128kg/m³ FyreWrap Blanket wrapped around the Foamglas with all joints being compressed butt joints.

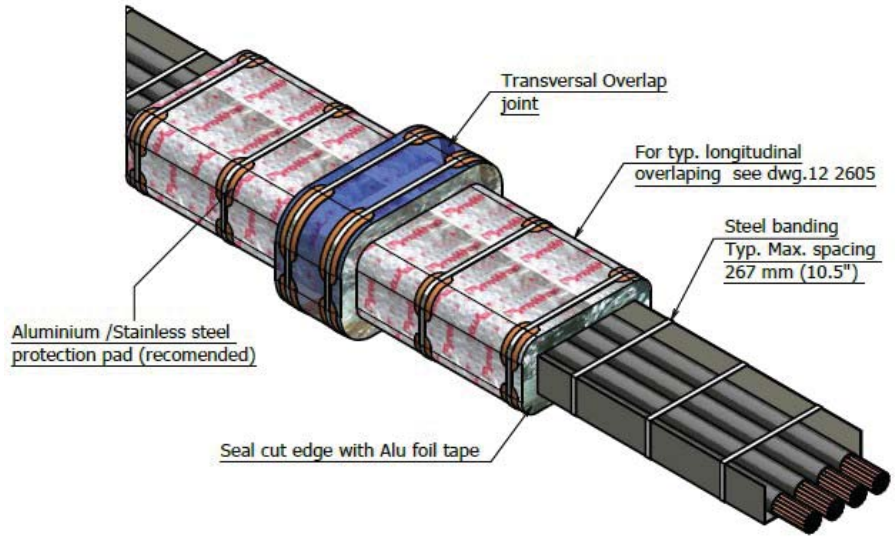
The outer layer is a 0.7mm thickness stainless steel cladding secured with stainless steel banding and pop rivets.

FyreWrap Cable Insulation is a thin, flexible insulation wrap designed to provide fire protective enclosures around cable trays and conduits. The FyreWrap System ensures that electrical conductivity is maintained during exposure to hydrocarbon fires permitting continued operation or controlled shutdown of critical equipment during emergency conditions.

The system is FM Global approved and meets ASTM E-1725 “Fire Tests of Resistive Barrier Systems for Electrical System Components” requiring the highest level of performance with trays with zero to full cable loading. The system also meets the requirements of ASTM E-1529 for circuit integrity. Dependent upon cable tray size, the system can provide protection for up to 60 minutes.

FM APPROVED

FyreWrap® Cable Insulation System



System Components

An Insulfrax AES fibre insulating core is completely encapsulated in a 50µm thick aluminium foil which is reinforced with a bi-directional glass fibre mesh. This covering has excellent tear resistance and imparts weather resistance to the system.

System Flexibility

The flexible wrap is held in place with regularly spaced steel bands. The system sections can easily be removed and replaced allowing for rapid installation or removal of cables and inspection.

Unifrax has it covered !

The introduction of the new FyreWrap LT Blanket systems give Unifrax an exceptional system offering into the marine, offshore and industrial fire protection markets.

Used successfully worldwide we can solve your problems.

Systems which are light in weight and easy to install, we can offer cost effective solutions with materials and systems you can trust and rely upon.

FyreWrap® Systems

Passive Fire Protection with Integrity and Trust

Within easy reach, right across Europe

From Paris to Prague, Milan to Madrid, you are never far from a UNIFRAX solution

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