

Notified body No. 2812

## Certificate of Type Approval

164.109/ERO2812/ MED0436TE

(EC Certificate of Type Examination-2014/90/EU Directive Module B)

**Manufacturer:** Unifrax France

**Address:** 17 Rue Antoine Durafour  
42420 Lorette  
France

**Authorised  
Representative:  
Address:**

Unifrax Limited  
Mill Lane, Rainford  
St Helens , Merseyside  
WA11 8LP, UK

This is to certify that the applicant has submitted details of a noncombustible product (Item Number MED/3.13), known and designated as:-

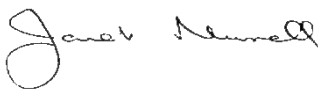
**“FyreWrap<sup>®</sup> SG Blanket”**

having the technical specification given in the schedule of equipment on this certificate which has been tested and complies with the recommended criteria given in the following methods, published by the International Maritime Organisation, and which are contained in the relevant parts of the International Code for Application of Fire Test Procedures (FTP Code) namely:-

- IMO Resolution MSC 307(88) Annex 1 Part 1 and Annex 2.
- IMO MSC/Circ.1120, 2 June 2004.

The system complies with the relevant international testing standards under which legislation (The Merchant Shipping Marine Equipment) Regulations 2016 and also the Marine Equipment Directive 2014/90/EU as amended) and the implementing regulation 2020/1170/EU the certificate is issued.

This equipment is covered by the scope of the “Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment signed February 27th, 2004 and amended by Decision No.1/2018 dated February 18th, 2019. The manufacturer is allowed to affix the U.S. Coast Guard approval number 164.109/ERO2812/MED0436.



Janet Murrell  
Certification Manager - Marine

Date of issue: 2021-01-01  
Valid until: 2025-01-12

ERO project reference: **EROMED10146**  
ERO EC Distinguishing No. **2812**

**This certificate is not valid for equipment, the design or manufacture of which, has been varied or modified from the specimens tested**

CSF402-NL 0.1

## Certificate of Type Approval Schedule of Equipment

**The applicant declared that the following comprises an accurate description of the system type to which this certificate applies:**

General description		AES wool blanket with glass fibre cloth facing
Product reference of overall composite		FyreWrap <sup>®</sup> SG Blanket
Name of manufacturer of overall composite		Unifrax
Thickness of overall		up to 50mm nominal
Determined Moisture content (%)		0.45 % - determined by Warringtonfire
Determined Organic content (%)		0.73 % - determined by Warringtonfire
Glass Cloth Facing	Generic type	E-glass
	Product reference	See note 1 below
	Name of manufacturer	See note 1 below
	Colour reference	White
	Number of coats	One
	Thickness	0.2mm
	Density / weight per unit area	1030kg/m <sup>3</sup> / 206g/m <sup>2</sup>
	Type of weave/cell dimensions	17.2yarns/cm 11.8 picks/cm
	Flame Retardant details	See note 2 below
Insulation Blanket	Generic type	AES wool blanket
	Product reference	FyreWrap <sup>®</sup> Blanket
	Name of manufacturer	Unifrax
	Detailed description/composition details	Blanket made from calcium magnesium silicate fibres
	Thickness	up to 50mm
	Density / weight per unit area	96kg/m / 4800g/m <sup>2</sup>
	Colour reference	White
	Flame Retardant details	See note 2 below
Brief description of manufacturing process	Calcium magnesium silicate fibres produced from a melt by a spinning process which are needed to form a binder free blanket. The glass cloth is then laminated to the face of the blanket with an inorganic silicate adhesive	

**Note 1** - The sponsor of the test has provided this information but at the specific request of the sponsor, these details have been omitted from the report and are instead held on the confidential file relating to this investigation.

**Note 2** - The sponsor stated that no flame retardants are utilised in the production of this component.

The under noted documents have been approved for compliance with the relevant requirements of International Conventions and European Union Legislation for the EU Type Examination of Marine Equipment for use on Ships Registered in the European Economic Area.

## Approved Documents

### Test Reports

- (1) WF 346678 (dated 8<sup>th</sup> December 2014). Non combustibility test to IMO Resolution MSC 307(88) Annex 1 Part 1 and Annex 2.

**Element Materials Technology Rotterdam BV**  
Zekeringstraat  
1014 BV  
Amsterdam  
The Netherlands

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