

# EC Type Examination (Module B) Certificate

## USCG-EU MRA

This is to certify that:

LLOYD'S REGISTER Marine Deutschland GmbH (LRMD), designated as a "notified body" based on the notification of the Federal Maritime and Hydrographic Agency of Germany, did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU and the valid Commission Implementing Regulation (EU) in force indicating design, construction and performance requirements and testing standards for marine equipment, subject to the conditions below and the attached Schedule which also forms part of this Certificate.

<b>Manufacturer</b>	<b>Unifrax Limited</b>
<b>Address</b>	Mill Lane, Rainford, St. Helens, Merseyside, WA11 8LP, United Kingdom (UK)
<b>Reference</b>	Marine Equipment Directive (MED) 2014/90/EU, Regulation (EU) 2021/1158
<b>Regulation Item (No. &amp; Item Designation)</b>	MED/3.11a 'A' And 'B' Class Division Fire Integrity: 'A' Class Divisions
<b>Product Type</b>	A-60 BULKHEAD
<b>Product Description</b>	Fire Resisting 'A' Class Bulkhead – Type: "A60 Bulkhead FyreWrap LT Blanket 80" steel bulkhead insulated on stiffened side with Alkaline Earth Silicate (AES) wool insulation (60mm thick and 80kg/m <sup>3</sup> density)
<b>Specified Standard</b>	IMO Res. MSC.307(88) – (2010 FTP Code), Annex 1, Part 3 IMO MSC.1/Circ.1435
<b>Trade Name</b>	"A60 Bulkhead FyreWrap LT Blanket 80"

The attached Design Appraisal Document (schedule) forms part of this certificate. This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to and agreed with the notified body named on this certificate. The manufacturer should notify LRMD of any modification or changes to the equipment in order to obtain a valid Certificate.

Lloyd's Register Marine Deutschland  
GmbH, Überseeallee 10, D-20457  
Hamburg, Germany.  
A member of the Lloyd's Register group

**Ratheesh Rajagopal**

Fire & Safety Specialist  
For and on behalf of Lloyd's Register Marine  
Deutschland GmbH (2923)

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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 on 27 February 2004 and amended by Decision No.1/2018 dated 18 February 2019 according to U.S. Coast Guard approval category USCG Module B number:

164.107/EC2923

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production Module certificate (Module D, E or F).

Should the specified regulations or standards be amended during the period of validity of this certificate, the product is to be re-approved prior being placed on the market and on board vessels to which the amended regulations or standards apply.

The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E, or F) of ANNEX II of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.

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## ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. LR22172287MB

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.

This Certificate Supersedes and is a Renewal of Certificate Number 0525-MED-DE-MED 1750016/M1

### Approval Documentation

### Test Reports

Far East Fire Testing Centre (FEFTC), 511 Chuhua Zhi Lu, Shanghai Chemical Industry Park, Fengxian Sub-Zone, Shanghai, People's Republic of China; Fire Test Report No. FT16340 dated 24th August 2016

### Conditions of Certification

1. When used in conjunction with an approved A Class steel bulkhead.
2. 'A60 Bulkhead FyreWrap LT Blanket 80' A-60 Class bulkhead consisting of: 4.5mm thick steel bulkhead insulated on stiffened side with one layer of (60mm thick, 80 kg/m<sup>3</sup> density) "FyreWrap LT Blanket" insulation applied over plate and stiffeners. Insulation manufactured by Unifrax Ltd. Total thickness of bulkhead is 64.5mm.
3. Insulation retained to the steel bulkhead and stiffeners with 3mm diameter steel pins and 38mm diameter steel washers: spaced at maximum centres of 300mm horizontally, 350mm vertically on the bulkhead layer of insulation; a maximum of 350mm from insulation joints; a maximum of 150mm from vertical edge boundaries; a maximum of 188.5mm from the floor edge boundaries; and a maximum of 50mm from ceiling edge boundaries.
4. Maximum width of insulation blankets following installation: 600mm.
5. Insulation fixing method should be same as tested arrangement in all cases.
6. Composition, application and installation of subcomponents, including adhesives, seals and any fire retardants, to be maintained in production and use in accordance with originally tested composition formula and method of application and installation, and manufacturer's instructions.
7. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure that items are of the same standard as the approved prototype.

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8. The Certificate holder is solely responsible for the products supplied under this Certificate and to ensure that their products are fully compliant with the relevant statutory regulations as applicable and are designed, manufactured and installed to the same quality and specifications as the prototype tested, including components that are designed and manufactured by third parties.
9. Production items of the subject equipment are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D), a Product-Quality assurance system (Module E) or a Product Verification Process (Module F). The wheelmark cannot be affixed to the product until a conformity assessment module is in place.
10. Each item, batch or lot of the equipment is to be issued with a "Declaration of Conformity" and have the "Mark of Conformity" affixed after a conformity assessment module is in place.
11. The manufacturer shall keep a copy of the EC type-examination certificate, its annexes and additions together with the technical documentation at the disposal of the national authorities for at least 10 years after the wheel mark has been affixed on the last product manufactured and in no case for a period shorter than the expected life of the marine equipment concerned.

#### **Place of Production**

##### **Unifrax Limited**

Mill Lane, Rainford,  
St Helens  
Merseyside, WA11 8LP  
United Kingdom (UK)

##### **Unifrax France**

17 Rue Antoine Durafour  
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42420 Lorette  
France

##### **Unifrax I LLC**

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United States of America (USA)



Ratheesh Rajagopal  
Specialist  
Fire & Safety, Statutory Discipline Team  
UK&I Technical Support Office, Marine & Offshore  
For and on behalf of Lloyd's Register Marine Deutschland  
**LRMD EC Distinguishing No. 2923**

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