

EC Type Examination (Module B) Certificate

USCG-EU MRA

This is to certify that:

LLOYD'S REGISTER VERIFICATION LIMITED (LRV), designated as a "notified body" under the terms of the Merchant Shipping (Marine Equipment) Regulations 2016 (S.I. 2016 No.1025), as amended, 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, subject to any conditions in the Design Appraisal Document attached hereto.

| | |
|---|--|
| Manufacturer | Unifrax Limited |
| Address | Mill Lane, Rainford, St. Helens, Merseyside, WA11 8LP, United Kingdom (UK) |
| Reference | Regulation (EU) 2019/1397 |
| Regulation Item (No. & Item Designation) | MED/3.34 Fire Restricting Divisions For High Speed Craft |
| Product Type | LOAD BEARING FIRE-RESISTING BULKHEAD 60 (Restricted Application) |
| Product Description | Fire Resisting Load Bearing Aluminium Bulkhead Insulated on the Stiffened Face (Fire Exposed Side) with Type: "Load Bearing Fire-Resisting Bulkhead 60" system for High-Speed Craft, using "FyreWrap LT" AES wool insulation |
| Specified Standard | IMO Res. MSC.45(65) Res.MSC.61(67) –(FTP Code), Part 11 IMO Res.MSC.101(73)– 2000, Amendments MSC/Circ.1120 IMO Res.MSC.307(88) – (2010 FTP Code), Section 8 |
| Trade Name | Load Bearing Fire-Resisting Bulkhead 60 - FyreWrap LT (Marine) Blanket |

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 This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.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 is issued under the authority of the MCA. 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 LRV of any modification or changes to the equipment in order to obtain a valid Certificate.

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:

164.207/EC0038



Keith Taylor

Team Lead Fire & Safety to Lloyd's Register
Verification Ltd
A member of the Lloyd's Register Group

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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 B 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. LR2004525MB

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 is an amendment of previous EC Type Examination (Module B) Certificate No: MED 1850148

APPROVAL DOCUMENTATION

1. 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: FT17281, dated 07 December 2017.

CONDITIONS OF CERTIFICATION

1. **Restricted Application:** When applied to an aluminium Load Bearing Fire-Resisting Bulkhead for High Speed Craft Code applications and major fire hazards, the bulkhead may be classified as a "Load Bearing Fire-Resisting Bulkhead 60" restricted applications with insulation and stiffeners on the fire exposed side of the bulkhead
2. Aluminium structure consists of: 304.8mm x 127mm x 8.9mm I type aluminium profile stiffeners welded to the exposed side of a 2mm thick flat aluminium plate at intervals of 1200mm, and horizontally 30 x 35 x 2mm I type aluminium profile stiffeners welded at intervals of 125mm. Aluminium angle 50 x 50 x 6mm welded to each edge of non-exposed side
3. Insulation consists of: one layer of "FyreWrap LT (Marine) Blanket" AES wool insulation (50mm thick, 70kg/m³ density), applied to the fire exposed insulated and stiffened side (fire exposed side) of a load bearing aluminium bulkhead, over the stiffeners and structural core retained by 3mm diameter aluminium pins and 30mm diameter aluminium washers at maximum intervals 250mm horizontally and vertically, and 100mm between pins and seams
4. The core temperature of aluminium alloy shall not rise above a maximum 200°C limit above ambient temperature for 60 minute duration of test
5. "FyreWrap LT (Marine) Blanket" AES wool insulation may be considered with alternative facing materials that have been tested for Low Flame Spread Characteristics
6. Application in each case to be approved by Lloyd's Register at the design stage
7. Composition and application of sub components to be maintained in production and use in accordance with originally tested composition formula and method of application, and manufacturer's instructions
8. The Certificate holder is solely responsible for the products supplied under this Certificate and to ensure that their products, whether manufactured by themselves or their licensee manufacturers, if agreed by Lloyd's Register, are fully compliant with the relevant statutory regulations and Lloyd's Register Class Rules as applicable and 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

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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

PLACES OF PRODUCTION

Unifrax UK
Mill Lane
Rainford
St.Helens
Merseyside
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United Kingdom (UK)

Unifrax France
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Durafour
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42420 Lorette
France

Unifrax I LLC
54401 Smilax Road
New Carlisle
Indiana 46552
United States of America (USA)



Keith Taylor
Team Lead, Fire & Safety
Fire & Safety, Statutory Discipline Team
UK&I Technical Support Office, Marine & Offshore
For and on behalf of Lloyd's Register Verification
LRV EC Distinguishing No. 0038

**NOTIFIED BODY CERTIFICATE
TRANSFER OF RESPONSIBILITY**



Certificate No: 0525-MED-DE-LR2004525MB

This certificate transfers Lloyd's Register Verification Ltd. (0038)
Certificate No: LR2004525MB
Issued on: 26 June 2020
to the responsibility of EU Notified Body No. 0525
(Lloyd's Register Deutschland GmbH)

Date of Original Certificate: 26 June 2020
Date of Current Certificate: 31 December 2020
Date of Certificate Expiry: 22 July 2023

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