





### EC TYPE EXAMINATION (MODULE B) CERTIFICATE

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) did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the essential Fire protection equipment requirements of Marine Equipment Directive (MED) 2014/90/EU and Commission Implementing Regulation (EU) 2018/773 indicating design, construction and performance requirements and testing standards for marine equipment, subject to any conditions in the Design Appraisal Document attached hereto.

<b>Manufacturer (Applicant)</b>	Unifrax Limited
<b>Address</b>	Mill Lane Rainford St. Helens Merseyside, WA11 8LP United Kingdom (UK)
<b>Reference Regulation Item (No &amp; Item designation)</b>	<b>Regulation (EU) 2018/773</b> MED/3.11a 'A' AND 'B' CLASS DIVISION, FIRE INTEGRITY - 'A' CLASS DIVISIONS
<b>USCG Category Number</b>	164.108 - 'A' AND 'B' CLASS DIVISION, FIRE INTEGRITY (Bulkhead)
<b>Product Type</b>	<b>A-60 BULKHEAD</b>
<b>Product Description</b>	Fire-Resisting 'A' Class Bulkhead - Type "FyreWrap A60 Corrugated Bulkhead"
<b>Specified Standard</b>	IMO Res. MSC.307(88) - (2010 FTP Code) Annex 1 Part 3

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

Date of issue	31 July 2018	Expiry date	30 July 2023
Certificate No.	MED 1850151	Signed	 
Sheet No	1 of 3	Name	J. M. Evans For and on behalf of Lloyd's Register Verification LRV EC Distinguishing No. 0038

Note:

This certificate is issued under the authority of the MCA. This certificate is not valid for equipment; the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify the notified body named on this certificate of any modification or changes to the equipment in order to obtain a valid Certificate.

USCG-EU MRA - This product has been assigned a U.S. Coast Guard Module B number: USCG Module B number: 164.108/EC0038 to note type approval to Module B only as it pertains to obtaining U. S. Coast Guard approval as allowed by the "Corrigendum to Council Decision 2004/425/EC of 21 April 2004 on the conclusion of an Agreement between the European Community and the United States of America on the mutual recognition of certificates of conformity for marine equipment."

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**Lloyd's Register Verification Limited**

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Document number MED 1850151
Issue number 1

**DESIGN APPRAISAL DOCUMENT**

Date 31 July 2018	Quote this reference on all future communications SOUTSO/SFS/TA/JE/WP33130733
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**ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1850151**

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.

**APPROVAL/EXAMINED DOCUMENTATION**

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. FT17298 dated 9<sup>th</sup> January 2018.

**CONDITIONS OF CERTIFICATION**

1. Subject to final approval by the Plan Approval Authority for the specific ship/project on a case-by-case basis for structural loading
2. Consisting of: 5mm thick steel bulkhead in corrugated form; depth of corrugation 50mm, flat faces 445mm length
3. Insulated with one layer of (50mm thick, 64 kg/m<sup>3</sup> density) insulation type "FyreWrap Blanket (as known as FyreWrap Marine Blanket) Type: Insulfrax" manufactured by Unifrax (Suzhou) Ltd. Insulation retained to bulkhead and stiffeners with 3mm diameter steel pins and 30mm diameter steel washers spaced at maximum 167mm from insulation joints, maximum 538mm centres horizontally and 180mm centres vertically
4. Composition and application of insulation material to be maintained in production and use in accordance with originally tested composition formula and method of application, and manufacturer's instructions
5. 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
6. This product has been assigned a U.S. Coast Guard Module B number USCG Approval Category 164.108 /EC0038 to note type approval to Module B only as it pertains to obtaining U. S. Coast Guard approval as allowed by the "Corrigendum to Council Decision 2004/425/EC of 21 April 2004 on the conclusion of an Agreement between the European Community and the United States of America on the mutual recognition of certificates of conformity for marine equipment"

In those instances where the Notified Body conducting the conformity assessment in accordance with either Module D, E or F of the Marine Equipment Directive is not Lloyd's Register Verification Limited., such Notified Body would use the above U.S. Coast Guard Module B number to provide the manufacturer with the U.S. Coast Guard approval number by noting it on the Certificate of Conformity, thereby authorizing the manufacturer to mark the product accordingly

Note: For products placed on board U.S. flagged ships there is no declaration of conformity required to meet U.S. Coast Guard requirements

7. 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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#### ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1850151

##### PLACE OF PRODUCTION

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

Unifrax France  
17, Rue Antoine Durafour  
BP2  
42420 Lorette  
France

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

Unifrax Brazil Ltd  
Avenida Independencia 7033  
Bairro Sao Matheus  
Vinhedo SP 13280-000  
Brazil

Unifrax India Private Ltd  
99 KM Stone  
Ahmedabad Surendranagar Highway  
Dist Surendranagar  
Lakhtar  
382775 Gujarat  
India

Unifrax (Suzhou) Co Ltd  
59 Shiyand Road  
Xushuguan New Zone  
21551 Suzhou  
People's Republic of China



Jessica Evans  
Senior Specialist  
Statutory Fire & Safety  
Southampton 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-MED 1850151**

This certificate transfers Lloyd's Register Verification Ltd. (0038)  
Certificate No: MED 1850151  
Issued on: 31 July 2018  
to the responsibility of EU Notified Body No. 0525  
(Lloyd's Register Deutschland GmbH)

Date of Original Certificate: 31 July 2018  
Date of Current Certificate: 31 December 2020  
Date of Certificate Expiry: 30 July 2023

Antje Herms-Bondzio  
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