

# CERTIFICATE OF FIRE APPROVAL

This is to certify that

The product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer Unifrax Ltd

Address Mill Lane

Rainford St Helens

Merseyside WA11 8LP United Kingdom (UK)

Type A-60 BULKHEAD

**Description** Fire-Resisting 'A' Class Bulkhead - Type "FyreWrap-LT A60 Restricted Bulkhead"

(For Restricted Applications Only)

Specified Standard IMO Res. MSC.307(88) – (2010 FTP Code) Annex 1 Part 3

The attached Design Appraisal Document forms part of this certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

Date of issue 28 June 2018 Expiry date 27 June 2023

Certificate No. SAS F180156/M1 Signed

Sheet No 1 of 3 Name K. Taylor

Surveyor to Lloyd's Register EMEA A Member of the Lloyd's Register Group

Note:

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 Lloyd's Register of any modification or changes to the equipment in order to obtain a valid Certificate.

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



# Lloyd's Register EMEA

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#### **DESIGN APPRAISAL DOCUMENT**

Date	Quote this reference on all future communications	
28 June 2018	SOUTSO/SFS/TA/KT/WP32328324	

## ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F180156/M1

This Design Appraisal Document forms part of the Certificate.

### APPROVAL 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. FT18016 dated 6th February 2018.

### **CONDITIONS OF CERTIFICATION**

- 1. **Restricted Application:** The stiffened, insulated face of the division to be exposed to the fire risk in all cases
- 2. Consisting of: 4.5mm thick steel bulkhead insulated with one layer of (50mm thick, 48kg/m³ density) insulation applied transversely over plate and stiffeners, type "FyreWrap LT Blanket" manufactured by Unifrax. Insulation retained to bulkhead and stiffeners with 3mm diameter steel pins and 30mm diameter washers spaced at maximum 350mm from insulation joints, maximum 350mm centres horizontally and vertically
- 3. 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
- 4. 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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## ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F180156/M1

### PLACE OF PRODUCTION

Unifrax UKUnifrax FranceUnifrax I LLCMill Lane17, Rue Antoine Durafour54401 Smilax RoadRainfordBP2New CarlisleSt Helens42420 LoretteIndiana 46552

Merseyside WA11 8LP France United States of America (USA)

United Kingdom (UK)



Keith Taylor Team Lead Statutory Fire & Safety Southampton Technical Support Office, Marine & Offshore Lloyd's Register EMEA

## Supplementary Type Approval Terms and Conditions

This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s).



## **USCG-EU MRA**



# 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.

Manufacturer (Applicant) Unifrax Limited

Address Mill Lane

Rainford St. Helens

Merseyside, WA11 8LP United Kingdom (UK)

Reference Regulation 2018/773

Regulation Item MED/3.11a 'A' AND 'B' CLASS DIVISION, FIRE INTEGRITY - 'A' CLASS DIVISIONS

(No & Item designation)

USCG Category Number 164.108 - 'A' AND 'B' CLASS DIVISION, FIRE INTEGRITY (Bulkhead)

Product Type A-60 BULKHEAD

Product Description Fire-Resisting 'A' Class Bulkhead - Type "FyreWrap-LT A60 Restricted Bulkhead" (For Restricted Applications

Only)

Specified Standard 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 28 June 2018 Expiry date 27 June 2023

Certificate No. MED 1850118/M1 Signed

Sheet No 1 of 3 Name K. Taylor

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 Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



# Lloyd's Register Verification Limited

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#### **DESIGN APPRAISAL DOCUMENT**

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#### ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1850118/M1

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. FT18016 dated 6th February 2018.

#### CONDITIONS OF CERTIFICATION

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- 3. 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
- 4. 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
- 5. 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 Ltd., 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
- 6. 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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Keith Taylor
Team Lead
Statutory Fire & Safety
Southampton Technical Support Office, Marine & Offshore
For and on behalf of Lloyd's Register Verification
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