



CERTIFICATE OF FIRE APPROVAL


This is to certify that

The product(s) detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations for use on offshore installations classed with Lloyd's Register, and for use on 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	H-60 BULKHEAD
Description	Fire Resisting Bulkhead – Type: “Steel Bulkhead insulated on the fire exposed side with ‘FyreWrap® Blanket’” (50mm thick, 144kg/m ³ density)
Specified Standard	IMO Resolution A.517(13) UK Department of Energy Hydrocarbon Time/Temperature Relationship

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	21 December 2017	Expiry date	20 December 2019
Certificate No.	SAS F180115	Signed	
Sheet No	1 of 3	Name	J. M. Evans 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

Lloyd's Register EMEA

71 Fenchurch Street, London, EC3M 4BS

Telephone 020 7423 2416 Fax 020 7423 2053

Email tass@lr.org

Page	2 of 3
Document number	SAS F180115
Issue number	1

DESIGN APPRAISAL DOCUMENT

Date 30 April 2018	Quote this reference on all future communications SOUTSO/SFS/TA/JE/WP31400036
-----------------------	----------------------------------------------------------------------------------

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F180115

This Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

The Loss Prevention Council (LPC), Borehamwood, United Kingdom, Fire Test Report Nos. TE 83840 dated 29th September 1993 and TE 82944 dated 26th May 1993.

CONDITIONS OF CERTIFICATION

1. Previously known as 'FIBERFRAX DURABLANKET S' or 'INSULFRAX BLANKET'
2. Consisting of: steel bulkhead insulated on the fire exposed side with one layer of FyreWrap® Blanket (50mm thick, 144kg/m³ density) insulation, retained by welded steel pins 3mm diameter and steel washers 38mm diameter, spaced at 240mm centres and 50mm from all edges of the insulation blanket
3. Insulated face of the bulkhead to be exposed to the fire hazard in all cases
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



Lloyd's
Register

Lloyd's Register EMEA

71 Fenchurch Street, London, EC3M 4BS

Telephone 020 7423 2416 Fax 020 7423 2053

Email tass@lr.org

Page

3 of 3

Document number

SAS F180115

Issue number

1

DESIGN APPRAISAL DOCUMENT

Date

30 April 2018

Quote this reference on all future communications

SOUTSO/SFS/TA/JE/WP31400036

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F180115

PLACE OF PRODUCTION

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

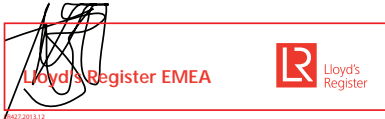
Unifrax France
17 Rue Antoine Durafour
BP2
42420 Lorette
France

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

Unifrax (Suzhou) Co. Ltd
59 Shiyuang Road
Xushuguan New Zone
215151 Suzhou
China

Unifrax India Private Ltd
99 k Stone
Ahmedabad Surendrangan Hwy
Lakhtar, Dist. Surendrangan
382 775 Gujarat
India

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



Jessica Evans
Senior Surveyor
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).