



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 Limited
Address	Mill Lane Rainford St. Helens Merseyside, WA11 8LP United Kingdom (UK)
Type	H-120 BULKHEAD (HYDROCARBON FIRE TEST)
Equipment Description	Steel Bulkhead insulated on one side with "FyreWrap® Blanket" (150mm thick, 128 kg/m ³ density)
Specified Standard	Department of Energy Test Specification – Issue 1: January 1990, Time/Temperature Relationship and IMO Resolution A.754(18)

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	26 July 2016	Expiry date	25 July 2021
Certificate No.	SAS F160264	Signed	
Sheet No.	1 of 2	Name	S. Abraham 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.

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Register

Lloyd's Register EMEA

71 Fenchurch Street, London, EC3M 4BS

Telephone 020 7423 2416 Fax 020 7423 2053

Email med@lr.org

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Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 16 September 2016	Quote this reference on all future communications SOUTSO/SFS/TA/FF/SA/WP25440978
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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F160264

This Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

BRE Testing, Garston, United Kingdom, Fire Test Report No. 228939, dated 12 July 2006.

CONDITIONS OF CERTIFICATION

1. Suitable for applications where the fire hazard is on either side of the bulkhead
2. Consisting of: Steel bulkhead insulated on one side with three layers of FyreWrap® Blanket (50mm thick, 128 kg/m³ density) insulation on the plate and two layers 50mm thick plus one layer 25mm thick (all 128 kg/m³ density) over the stiffeners. All retained by welded steel pins 3mm diameter and 38mm diameter steel washers, spaced at 240mm centres and at 50mm from all edges of the upper insulation blanket
3. 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

PLACES 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 India
99k Stone
Ahmedabad Surendrangar Hwy
Lakhtar Dist. Surendrangar
382 775 Gujarat
India

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

Unifrax China
59 Shiyuang Road
Xushuguan New Zone
215151 Suzhou
China

Unifrax Inc. LLC
54401 Smilax Road
New Carlisle
Indiana 46552
United States of America



Saji Abraham
Senior Specialist
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).