

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	STRUCTURAL STEEL DECK FIRE PROTECTION SYSTEM (HYDROCARBON FIRE TEST)
Equipment Description	Structural Steel Deck Having a Restricted Steel Core Temperature Rise of 400°C at 120 minutes, when Insulated on the Under Side with a "FyreWrap LT" AES wool insulation system
Specified Standard	Testing meets the requirements of: IMO Resolution A.754(18) incorporating the NPD 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 26 November 2018 Expiry date 25 November 2023

Certificate No. SAS F180181 Signed  

Sheet No 1 of 3 Name B. Geary
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.



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DESIGN APPRAISAL DOCUMENT

Date 27 June 2018	Quote this reference on all future communications SOUTSO/SFS/TA/BG/WP32824817
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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F180181

This Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Exova Warringtonfire, Warrington, United Kingdom, Hydrocarbon Fire Test Report No. WF 325726, dated 9 May 2013.

CONDITIONS OF CERTIFICATION

1. When applied to the underside of a structural steel deck, the "FyreWrap LT" AES wool insulation system may be considered as an "H-0(400) Deck" that may restrict the steel core mean temperature rise to 400°C at 120 minutes
2. Application restricted to insulated underside of deck being exposed to the fire risk in all cases
3. Consisting of: a single layer of "FyreWrap LT" AES wool insulation (40mm thick, 70kg/m³ density) applied to plate and at 90° to and over stiffeners, retained with 3mm diameter welded steel pins and spring washers, spaced at 250mm x 240mm centres" and at 50mm from all insulation joints and boundaries
4. "FyreWrap LT" AES wool insulation may be considered with alternative facing materials that have been tested for Low Flame Spread Characteristics
5. Application in each case to be approved by Lloyd's Register at the design stage
6. 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

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PLACE OF PRODUCTION

Unifrax Limited
Mill Lane,
Rainford,
St. Helens
Merseyside, WA11 8LP
United Kingdom

Unifrax France
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France

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New Carlisle,
Indiana 46552,
USA.



Ben Geary
Technical Manager
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).