



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 DECK
Description	Fire Resisting Deck - Type: "Steel Deck insulated on the underside 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 2022
Certificate No.	SAS F180114	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.

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DESIGN APPRAISAL DOCUMENT

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

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F180114

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.

Lloyds Register Witness Statement HOU1600398/1 dated 14th July 2016.

CONDITIONS OF CERTIFICATION

1. Previously known as 'FIBERFRAX DURABLANKET S' or 'INSULFRAX BLANKET'
2. Consisting of: steel deck insulated on the fire exposed underside 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 at 50mm from all edges of the insulation blanket
3. Insulated face of the division 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

NOTE

A specimen of this H-60 deck system covered with steel wire mesh was subjected to a blast overpressure of 1.25 Bar with a duration of 279 ms. Subsequent examination showed the insulation withstood the blast and did not show any significant delamination from the substrate.



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PLACE OF PRODUCTION

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

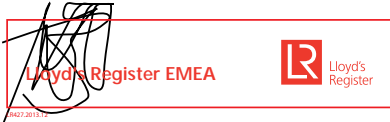
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Jessica Evans
Senior Surveyor
Statutory Fire & Safety
Southampton Technical Support Office, Marine & Offshore
Lloyd's Register EMEA

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).