



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	Saint-Gobain ISOVER G+H AG
Address	Burgermeister- Grunzweig-Straße 1 67059 Ludwigshafen Germany
Type	A-60 DECK
Description	Fire Resisting 'A' Class Aluminium Deck – Type: "ULTIMATE A-60 Deck – Aluminium"
Specified Standard	IMO Res. MSC.61(67) – (FTP Code) Annex 1 Part 3 IMO MSC/Circ. 1120 IMO Res. MSC.307(88) – (2010 FTP Code) Section 8

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 1 April 2019 Expiry date 31 March 2024

Certificate No. SAS F190043

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.



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Page	2 of 3
Document number	SAS F190043
Issue number	1

DESIGN APPRAISAL DOCUMENT

Date 2 April 2019	Quote this reference on all future communications UKITSO/SFS/TA/JE/WP34288021
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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F190043

This Design Appraisal Document forms part of the Certificate.

This Certificate is a renewal of Certificate Number SAS F140073

APPROVAL DOCUMENTATION

DIFT, Danish Institute of Fire and Security Technology, Jernholmen 12, DK-2650 Hvidovre, Denmark, Test Report File No. PG11607/Serial No. 10592 dated 22nd May 2006.

CONDITIONS OF CERTIFICATION

1. A-60 deck consisting of: 6mm thick aluminium plate insulated on underside with two layers of (30mm thick, density 66 kg/m³) mineral wool insulation type 'ULTIMATE U MPN 66' manufactured by Saint-Gobain Isover G+H AG, fitted to plate and around stiffeners, and five layers compressed behind stiffeners. Insulation joints staggered between layers with minimum distance 200mm
2. Total thickness of deck: 66mm
3. Insulation retained to the steel panels with welded steel pins and steel washers, fitted at a maximum spacing of 400mm centres and to stiffeners at maximum spacing 250mm on flange
4. Deck may be faced with alternative facing materials that have been tested for surface flammability and separately approved. Any adhesive used with the facing material must be identified and also approved
5. The core temperature of aluminium alloy shall not rise above a maximum 200°C limit above ambient temperature for 60 minute duration of test (SOLAS Chapter II-2 Regulation 11)
6. 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
7. 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

PLACE OF PRODUCTION

Saint-Gobain ISOVER G+H AG
Industriestraße 11
D-19386 Luebz
Germany



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Page	3 of 3
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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. SAS F190043



Jessica Evans
Senior Specialist
Fire & Safety, Statutory Discipline Team
UK&I 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).