



BUNDESAMT FÜR
SCHIFFFAHRT
UND
HYDROGRAPHIE

Notified Body authorised by
BSH 0800-S23/4822:013

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Certificate No: LR23165693MB

Issue Date: 09/01/2023

Expiry Date: 08/01/2028

EC Type Examination (Module B) Certificate

USCG-EU MRA

This is to certify that:

LLOYD'S REGISTER Marine Deutschland GmbH (LRMD), designated as a "notified body" based on the notification of the Federal Maritime and Hydrographic Agency of Germany, did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU and the valid Commission Implementing Regulation (EU) in force indicating design, construction and performance requirements and testing standards for marine equipment, subject to the conditions below and the attached Schedule which also forms part of this Certificate.

Manufacturer	Saint-Gobain ISOVER G+H AG
Address	Buergermeister-Gruenzweig-Strasse 1, D-67059 ,Ludwigshafen, Germany
Reference	Marine Equipment Directive (MED) 2014/90/EU, Regulation (EU) 2022/1157
Regulation Item (No. & Item Designation)	MED/3.11a 'A' And 'B' Class Division Fire Integrity: 'A' Class Divisions
Product Type	A-60 Class Bulkhead
Product Description	Fire Resisting 'A' Class Bulkhead – Type "U Seaprotect 66-70 – A-60 Aluminium Bulkhead Restricted 4MM"
Specified Standard	IMO Res. MSC.307(88) – (2010 FTP Code) Annex 1 Part 3 & IMO MSC.1/Circ.1435.
Trade Name	"U Seaprotect 66-70 – A-60 Aluminium Bulkhead Restricted 4MM"

The attached Design Appraisal Document (schedule) forms part of this certificate. This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to and agreed with the notified body named on this certificate. The manufacturer should notify LRMD of any modification or changes to the equipment in order to obtain a valid Certificate.

This equipment is covered by the scope of the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed on 27 February 2004 and amended by Decision No.1/2018 dated 18 February 2019 according to U.S. Coast Guard approval category USCG Module B number:

164.107/EC2923

Lloyd's Register Marine Deutschland
GmbH, Überseeallee 10, D-20457
Hamburg, Germany.
A member of the Lloyd's Register group

Keith Taylor

Technical Safety, Electrical & Control Team
Lead
For and on behalf of Lloyd's Register Marine

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A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production Module certificate (Module D, E or F).

Should the specified regulations or standards be amended during the period of validity of this certificate, the product is to be re-approved prior being placed on the market and on board vessels to which the amended regulations or standards apply.

The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E, or F) of ANNEX II of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.

Lloyd's Register Marine Deutschland
GmbH, Überseeallee 10, D-20457
Hamburg, Germany.
A member of the Lloyd's Register group

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Reference:	UKITSO/FIRE/TA/JG/BM/KT/WP49019891/PRJ11100398811

ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. LR23165693MB

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.

This Certificate Supersedes and is a Renewal of Certificate Number 0525-MED-DE-MED 1850007

Approval Documentation

Test Reports

1. Danish Institute of Fire and Security Technology, DBI; Jernholmen 12, DK-2650 Hvidovre, Denmark. Fire Test Report No PGA11097A dated 11th October 2017 & Fire Test Report Supplement PGA11097A.

Conditions of Certification

1. Bulkhead shall be constructed of aluminium insulated on the stiffened side on the plating and around stiffeners with one layer of "ISOVER U SeaProtect Slab 66" mineral wool produced by SAINT-GOBAIN ISOVER G+H AG (Nominal Thickness 70mm, Nominal Density 66kg/m³). Inside the cavity of the stiffeners two layers of "ISOVER U SeaProtect 66" mineral wool shall be applied, total thickness (70mm+20mm). The insulation was fixed to the plating 3mm aluminium-tipped steel pins & 38mm steel washers with horizontal & vertical centres not exceeding 300mm or 150mm from insulation joints. Arrangement of steel pins on the plates shall be in accordance with the referenced fire test reports and supplement to fire test report.
2. Approved for Restricted Application where the fire hazard has been identified as being from the insulated side only.
3. The insulation system was tested on a 4mm aluminium core and met all insulation and integrity criteria for a load bearing aluminium bulkhead of required fire rating; therefore, it could be considered for use as an aluminium bulkhead of a thickness of 4mm or greater.
4. The Certificate holder is solely responsible for the products supplied under this Certificate and to ensure that their products are fully compliant with the relevant statutory regulations as applicable and are designed, manufactured and installed to the same quality and specifications as the prototype tested, including components that are designed and manufactured by third parties.
5. Production items of the subject equipment are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D), a Product-Quality assurance system (Module E) or a Product Verification Process (Module F). The wheelmark cannot be affixed to the product until a conformity assessment module is in place.
6. Each item, batch or lot of the equipment is to be issued with a "Declaration of Conformity" and have the "Mark of Conformity" affixed after a conformity assessment module is in place.
7. The manufacturer shall keep a copy of the EC type-examination certificate, its annexes and additions together with the technical documentation at the disposal of the national authorities for at least 10 years after the wheel mark has been affixed on the last product manufactured and in no case for a period shorter than the expected life of the marine equipment concerned.

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Place of Production

Saint-Gobain ISOVER G+H AG Plant Luebz
Industriestrasse 1
D-19386 Luebz
Germany

Keith Taylor
Team Lead - Technical Safety, Electrical & Control
Global Technical Support Office, Marine & Offshore
Lloyd's Register
For and on behalf of Lloyd's Register Marine
Deutschland LRMD EC Distinguishing No. 2923

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