

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the "A" Class divisions, fire integrity

with type designation(s)

Steel Deck A-15 U Sea Protect 36/70

Issued to

SAINT-GOBAIN ISOVER G+H AG

Ludwigshafen am Rhein, Rheinland-Pfalz, Germany

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2019/1397**,

item No. MED/3.11a. SOLAS 74 as amended, Regulation II-2/3.2 & II-2/9, IMO 2010 FTP Code, IMO MSC/Circ.1120 and IMO MSC.1/Circ.1434, IMO MSC.1/Circ.1435.

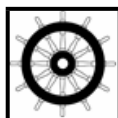
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-02-04**.

Issued at **Hamburg** on **2020-02-05**

DNV GL local station:
Augsburg

Approval Engineer:
Timo Linn



Notified Body
No.: **0098**

for **DNV GL SE**

Gerhard Aulbert
Head of Notified Body

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), as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th, 2004, and amended by Decision No 1/2018 dated February 18th, 2019.

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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Job Id: **344.1-004262-18**
Certificate No: **MEDB00006FY**

Product description

"Steel Deck A-15 U Sea Protect 36/70"

Composed of a stiffened steel deck insulated underneath with 70 mm mineral wool of type U SeaProtect 36 (density 36 kg/m³) from SAINT-GOBAIN ISOVER G+H AG. No insulation is fitted on the stiffeners.

The insulation is fastened with 3 mm steel pins and 38 mm steel washers. Distance between pins is maximum 300 mm.

Further details referred to the documentation listed below under "Type Examination documentation" and to the appendix of the certificate.

Application/Limitation

Approved for use as horizontal fire retarding division of class A-15.

The insulation thickness may be increased up to a maximum area weight of 5280 g/m². Insulation density may be increased up to 66 kg/m³ or a maximum area weight of 5280 g/m² (whichever comes first). Same type of insulation (U SeaProtect) must be used.

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity. This requirement may also be applicable for surface materials used, if required by relevant rules and regulations.

Each product is to be supplied with its manual for installation and maintenance.

Type Examination documentation

Test Report. No. PGA10523 dated 30th of September 2014 from Danish Institute of Fire and Security Technology (DBI), Hvidovre, Denmark

Assessment report nos.:

PHA10498c (minimum thickness and density) dated 16 December 2019

PHA10498d (position of joints) dated 15 January 2020,

PHA10498g (pin pattern) dated 15 January 2020

All from Danish Institute of Fire and Security Technology (DBI), Hvidovre, Denmark.

Drawing no. AK2308 (2 pages) dated 3 December 2014 from SAINT-GOBAIN ISOVER G+H AG.

Certificate has been renewed based on the MED B certificate MED-B-9517.

Tests carried out

Tested according to IMO Resolution MSC.307(88) – 2010 FTP Code Annex 1, Part 3

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, MED Mark of Conformity (see page 1) and USCG approval number, if applicable.

Appendix Rev. No. 0 to MEDB00006FY

