

TYPE EXAMINATION CERTIFICATE – EC MODULE B

Certificate no.:
MEDB0000971

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

This is to certify:

that the **A & B Class divisions fire integrity: B class divisions.**

with type designation(s)

B-15 extended wall with combustibile pipe penetration

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) 2024/1975,

item No. MED/3.11b. SOLAS 74 as amended, Regulation II-2/3.4 & II-2/9, IMO 2010 FTP Code, IMO
MSC/Circ.1120 and IMO MSC.1/Circ.1581

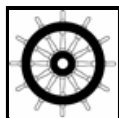
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2030-06-21**.

Issued at **Hamburg** on **2025-06-22**

DNV local unit:
Augsburg

Approval Engineer:
Kristin Grønnæss Hovden



Notified Body
No.: **0098**

for **DNV SE**

Mydlak-Röder, Christine
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 1/2023 dated May 26th, 2023.

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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") 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 USD 300 000.

Product description

"B-15 extended wall with combustible pipe penetration"

The extended wall is composed of one layer of 50 mm thick mineral wool of type "Isover U SeaProtect Slab 66 (density 66 kg/m³, manufactured by Saint-Gobain Isover G+H AG). The insulation slabs are connected by means of steel connecting bridges with max. spacing of approx. 200 mm. The connecting bridges are used for both vertical and horizontal joints and consist of steel pins, washers and 12 mm wide perforated steel strips mounted on each side of the wall extension.

At the bottom and at the top of the wall extension, the insulation slabs are fixed to 1 mm thick perforated steel L-profiles by means of steel pins and washers (c-c max. 300 mm). The steel profiles are fixed to the supporting structure by self-cutting screws.

The extended wall may be fitted with the following pipe penetrations:

Single pipe penetration Roxtec Sleev-it (size 18 – 42 mm, manufactured by Roxtec) with pipe material PE-AL-PE (size 16 mm to 40 mm (OD)) inserted into the extended wall and fixed by means of a pin and washers. The flange may be positioned on either side.

Single pipe penetration with pipe material PE-AL-PE (size 16 mm to 40 mm (OD)) inserted into the extended wall and sealed with 2 layers of Kaiflex Pyrostar wrapped around the pipe (length 125 mm, manufactured by Kaimann Saint-Gobain). The penetration is additionally insulated of type "Isover U SeaProtect Roll 46 Alu 1" (density 46 kg/m³, manufactured by Saint-Gobain Isover G+H AG) 150 mm along the pipe on both sides of the wall extension. The sealing and insulation are secured with galvanized winding wire.

Single pipe penetration with pipe material PB (size 20 mm to 110 mm (OD)) inserted into the extended wall and sealed with 2 layers of Kaiflex Pyrostar wrapped around the pipe (length 125 mm, manufactured by Kaimann Saint-Gobain). The penetration is additionally insulated of type "Isover U SeaProtect Roll 46 Alu 1" (density 46 kg/m³, manufactured by Saint-Gobain Isover G+H AG) 150 mm along the pipe on both sides of the wall extension. The sealing and insulation are secured with galvanized winding wire.

Single pipe penetration with pipe material GRP (size 48 mm to 168 mm (OD)) inserted into the extended wall and sealed with 2 layers of Kaiflex Pyrostar wrapped around the pipe (length 125 mm, manufactured by Kaimann Saint-Gobain). The penetration is additionally insulated of type "Isover U SeaProtect Roll 46 Alu 1" (density 46 kg/m³, manufactured by Saint-Gobain Isover G+H AG) 150 mm along the pipe on both sides of the wall extension. The sealing and insulation are secured with galvanized winding wire.

The installation is to be performed according to the manufacturer's installation manuals.

Application/Limitation

Extended wall approved for use as of class B-15 fire retarding division.

Max. size of individual wool slab: 1200 mm x 600 mm (H x W)

Approved with maximum of two slabs in the vertical direction.

The wall extension may only be installed in concealed and inaccessible spaces.

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. PGB10105A dated 25 May 2021 from DBI, Hvidovre, Denmark.
Test report No. PGB10320A dated 10 June 2024 from DBI, Hvidovre, Denmark.
Test report No. PGB10351A dated 9 May 2024 from DBI, Hvidovre, Denmark.
Drawing No. AK2546 dated 28 May 2025 from maker.

Tests carried out

Tested according to IMO 2010 FTP Code Part 3

Marking of product

The product is to be marked with name and address of manufacturer, type designation, fire-technical rating, the MED Mark of Conformity and USCG number if applicable (see first page).