



# EC TYPE EXAMINATION (MODULE B)

CERTIFICATE No. MED278023CS

***This is to certify*** that RINA Services S.p.A. (Notified Body No. 0474) did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2022/1157.

MED Item N° MED/3.11a

USCG Category N° 164.107

Description 'A' and 'B' Class divisions fire integrity: (a) 'A' Class divisions

Type ULTIMATE A-60 BULKHEAD - ALUMINIUM

Applicant **SAINT-GOBAIN ISOVER G+H AG**

BURGERMEISTER GRUNZWEIG STRASSE 1

67059 LUDWIGSHAFEN

GERMANY

Testing standards IMO Res. MSC.307(88)-(2010 FTP Code) - IMO MSC.1/Circ. 1435

Reference standards Chap. II-2 of SOLAS 74 Convention, as amended, RINA Rules for the certification of Marine Equipment

Issued in Genoa on  
September 22, 2023

This Certificate is valid until  
September 21, 2028

This Certificate consists of this sheet plus an attachment

**Enrico Cabella**

RINA Services S.p.A.

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**ATTACHMENT TO  
CERTIFICATE No. MED278023CS**

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*Manufacturer*

**SAINT-GOBAIN ISOVER G+H AG, PLANT LUBZ**

*Place of Manufacturer*

INDUSTRIESTRASSE 11  
19386 LUBZ  
GERMANY

**A60 Bulkhead, Aluminium - Construction 1**

**Description**

Aluminium bulkhead whose structural core is insulated on both sides with two layers of mineral wool type ULTIMATE, each layer having density of minimum  $66 \text{ kg/m}^3$  and each layer a thickness of minimum 30 mm between the stiffeners and with two layers of mineral wool type ULTIMATE, each layer having a density of minimum  $66 \text{ kg/m}^3$  and each layer a thickness of minimum 30 mm around the stiffeners.

As an alternative the above mentioned aluminium bulkhead structural core may be insulated on both sides with one layer of mineral wool type ULTIMATE, having density of minimum  $66 \text{ kg/m}^3$  and thickness of minimum 60 mm between the stiffeners and with one layer of mineral wool type ULTIMATE, having a density of minimum  $66 \text{ kg/m}^3$  and a thickness of minimum 60 mm around the stiffeners.

**Products**

The following mineral wool types may be used:

ULTIMATE U SeaProtect Slab 66 Alu1, U SeaProtect Slab 66 G120, U SeaProtect Slab 66 G220, U SeaProtect Slab 66 G420, U SeaProtect Slab 66, U SeaProtect Slab 66 V2, U SeaProtect Slab 66 B-GI + U SeaProtect Slab 66 B-Al, U SeaProtect Wired Mat 66 Alu1, U SeaProtect Wired Mat 66.

**Field of application**

General application - Fire against either side.

**Reference document**

Saint Gobain Isover drawing No. AK2438 dated 04 November 2019 attached to the DBI Test Report No. PGA11608A issued on 27 November 2019.

DBI Fire Technical Assessment No. PHD10035A issued on 03 May 2021.

**Tests carried out**

Test as per DBI Test Laboratory report No. PGA11608A issued on 27 November 2019 according to IMO Res. A.754(18).



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**A60 Bulkhead, Aluminium - Construction 2**

**Description**

Aluminium bulkhead whose structural core is insulated on both sides with one layer of mineral wool type ULTIMATE having density of minimum  $66 \text{ kg/m}^3$  and a thickness of minimum 70 mm between the stiffeners and with one layer of mineral wool type ULTIMATE, having a density of minimum  $66 \text{ kg/m}^3$  and a thickness of minimum 70 mm around the stiffeners.

**Products**

The following mineral wool types may be used:

ULTIMATE U SeaProtect Slab 66 Alu1, U SeaProtect Slab 66 G120, U SeaProtect Slab 66 G220, U SeaProtect Slab 66 G420, U SeaProtect Slab 66, U SeaProtect Slab 66 V2, U SeaProtect Slab 66 B-GI + U SeaProtect Slab 66 B-Al, U SeaProtect Wired Mat 66 Alu1, U SeaProtect Wired Mat 66.

**Field of application**

General application - Fire against either side.

**Reference document**

Saint Gobain Isover drawings No. AK2231 dated 18 June 2012 approved on 30 October 2013 with endorsement No. LABS-845.

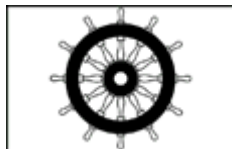
**Tests carried out**

Test as per RINA Test Laboratory report No. 2008CS014213/2 issued on 23 September 2008 according to IMO Res. A.754(18).

This certificate annuls and replaces the certificate No. MED026822CS dated 01/26/2022 due to renewal.

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*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 a written inspection agreement with a Notified Body*



**XXXX/YYYY**

**"WHEELMARK FORMAT"**

**XXXX**      *Notified Body number undertaking surveillance module*

**YY**      *Last two digits of year mark affixed*

**USCG Approval marking**

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 February 27th, 2004 and amended by Decision No. 1/2018 dated February 18th, 2019 according to U.S. Coast Guard approval category **164.107**.

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 MED.

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***General conditions for the approval***

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- c) This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA
- d) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.




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**Enrico Cabella**

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