



Marine & Offshore

Certificate number: 18955/C0 BV

File number: AC11000/499/018

Product code: 5080H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

SAINT-GOBAIN ISOVER G+H AG

Ludwigshafen - GERMANY

for the type of product

A60 CLASS DECKS

A-60 class deck floating floor (U SeaProtect Slab 90: 50 mm)

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships Part C Chapter 4

SOLAS 74 convention as amended, Regulations II-2/9, II-2/3.4

IMO Res. MSC.61(67) -(FTP Code)- with IMO Res MSC.307(88) -(2010 FTP Code)- article 8

IMO MSC/Circ.1120

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 22 Mar 2024

For Bureau Veritas Marine & Offshore,

At BV HAMBURG, on 22 Mar 2019,

Jens Bauermeister



This certificate is recognized by Transport Canada

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

A-60 class deck floating floor (U SeaProtect Slab 90: 50 mm)

Composed of structural steel deck insulated on top with mineral wool:

- 50 mm of mineral wool "U SeaProtect Slab 90" (former "ULTIMATE U MPN 90"; nominal density 90 kg/m³) mounted on top of steel deck.
- a 2 mm thick galvanised steel sheet mounted on top of the mineral wool.
- glue "Macroplast UK 8303 B60" (manufactured by Henkel) applied on the 2 mm thick galvanised steel sheet at a rate of 250 g/m².
- a 3 mm thick galvanised steel sheet mounted on top of the glue.

Steel pop-rivet:

- max spacing 200 mm continuously along the joints.

2. DOCUMENTS AND DRAWINGS:

As per Manufacturer's drawings "A-60DECK" dated 04/12/2003 and N°100616 Index E dated 26/02/2004.

3. TEST REPORTS:

3.1 - Tests report N° PG 11297 dated 30/03/2004, as per IMO FTP Code Annex 1 Part 3 [test standard : IMO Resolution A.754(18)], from DIFT, Denmark.

3.2 - Technical assessment N° PH 12646c dated 05/10/2007, from DIFT, Denmark.

4. APPLICATION / LIMITATION:

4.1 - The following components shall comply with the requirements of the relevant Bureau Veritas rules and be type approved:

- the insulating material "U SeaProtect Slab 90",
- the adhesive material "Macroplast UK 8303 B60".

4.2 - The fitting aboard to be the same as used for the test.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The A-60 Class deck floating floor is to be supplied by **SAINT-GOBAIN ISOVER G+H AG** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **SAINT-GOBAIN ISOVER G+H AG** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

6. MARKING OF PRODUCT:

The product or packing is to be marked with manufacturer name, type, designation and fire-technical rating.

7. OTHERS:

7.1 - It is **SAINT-GOBAIN ISOVER G+H AG's** responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This Certificate supersedes the Type Approval Certificate N° 18955/B0 BV issued on 05/11/2013 by the Society.

*** END OF CERTIFICATE ***