

MARINE DIVISION

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Certificate number: 10984/B0 BV

File number : ACI 1000/001/063

Product code : 5001D

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

TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Classification Rules

This certificate is issued to

ROCKWOOL A/S
Hedehusene - DENMARK

for the type of product

A60 CLASS ALUMINIUM BULKHEADS

A-60 class aluminium bulkhead - ROCKWOOL MARINE FIREBATTS 130

Regulations and standards :

BV Rules Part C, Chapter 4 - SOLAS 74, as amended, Chapter II-2 - IMO Resolution A754(18) - IMO Resolution MSC.61(67) Annex 1, Part 3 - IMO Resolution MSC.45(65).

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of the Regulations and standards mentioned above.

This certificate is valid until : 28 Jun 2011

At Paris la Défense, on : 28 Jun 2006

For BUREAU VERITAS,
By order of the Secretary

Approval office

Local office : BV FREDERICIA
Surveyor : H. Andersen


J. BENOIT





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. 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 Division. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS 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 aluminium bulkhead - ROCKWOOL MARINE FIREBATTS 130

Composed of a structural aluminium bulkhead insulated on both sides with 2 layers of mineral wool "Rockwool Marine Firebatts 130" slabs (density 130 kg/m³) 30mm thick each with staggered joints. Slabs are fixed by steel pins 3 mm in diameter and washers 38 mm in diameter.

Stiffeners are also wrapped up with 2 layers of mineral 30 mm thick each. The space between the stiffener's flange and the bulkhead plating is filled with mineral wool.

Maximum distance between 2 pins on stiffeners: 300 mm
Maximum distance between 2 pins in height: 400 mm
Maximum distance between 2 pins in width: 350 mm

2. DOCUMENTS AND DRAWINGS :

As per the manufacturer's drawings referenced "A-60 aluminium bulkhead insulated with 2x30 mm Rockwool Marine Firebatts 130" dated August 9, 2000.

3. TEST REPORTS :

Test report N° PG10699 Serial N° 7735 dated October 3, 2000 as per IMO FTP Code, Annex 1, Part 3 [testing standard: IMO Resolution A754 (18)] from Danish Institute of Fire Technology, Denmark.

4. APPLICATION / LIMITATION :

4.1 - Mineral wool "Rockwool Marine Firebatts 130" (nominal density 130 kg/m³) manufactured by Rockwool Denmark A/S. Test report n° PH11615 [testing date: July 20, 2000] as per IMO FTP Code, Annex 1, Part 1. Type Approval Certificate n° 01525/F0 BV issued by Bureau Veritas on Oct. 18, 2005.

4.2 - Surface lining to be type approved.

Application / Limitation of use:

- Approval valid for ships having to comply with SOLAS 74 Convention, as amended, and for units having to comply with IMO Resolution A649 (The "MODU Code").
- This bulkhead can be used as a "load bearing fire-resisting bulkhead 60" of High Speed Craft.

On board installation & Maintenance requirements:

- The fitting aboard to be the same as used for the test.
- Flame spread, smoke characteristics and calorific value of the lining to be as per Rule requirements.

5. PRODUCTION SURVEY REQUIREMENTS :

As per DBV 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 - This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the materials at any time and that **ROCKWOOL DENMARK A/S, Hedehusene - Denmark**, will accept full responsibility for informing shipbuilders or their sub-contractors of the proper methods of fitting and general maintenance of the material and the conditions of this approval.

7.2 - This Certificate supersedes the Type Approval Certificate N° 10984/A0 BV issued on 15/05/2001 by the Society.

***** END OF CERTIFICATE *****