

MARINE DIVISION

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Certificate number: 06683/C0 BV

File number : ACI 1000/001/057

Product code : 5000H

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 BULKHEADS

"ROCKWOOL MARINE FIREBATTS 130 - A60 CLASS BULKHEAD"

Regulations and standards :

BV Rules, Part C - SOLAS 74 Convention, as amended by Amendments 2000, Regulation II-2/9.3.1 - IMO FTP Code Part 3 - IMO Resolution A.754(18)

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 : 02 Jan 2011

At Paris la Défense, on : 02 Jan 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 :

"ROCKWOOL MARINE FIREBATTS 130 - A60 CLASS BULKHEAD"

Composed of a structural steel bulkhead insulated with mineral wool "ROCKWOOL MARINE FIREBATTS 130" (density approx. 130 kg/m³) fixed by pins and clips. The bulkhead plate is insulated with 2 boards of mineral wool each 30mm thick. Stiffeners are wrapped up with mineral wool 30mm thick. The space between the stiffener's flange and the bulkhead plate is filled with mineral wool.

Maximum distance between 2 pins = 300 mm

Non combustible material ; "Rockwool Marine Firebatts 130" (density 130 kg/m³) mineral wool manufactured by Rockwool Denmark A/S. Certificate N°01525/E0 BV issued by the Society on 11th May 2000.

2. DOCUMENTS AND DRAWINGS :

As per the manufacturer's drawings referenced "A-60 bulkhead fire insulated with 2x30mm Rockwool Marine Fire Batts 130" 1b, 2b and 3b.

3. TEST REPORTS :

Test report N°G10096 Serial N°5994 dated 26th January 1996 as per IMO A754 (18) from Danish Institute of Fire Technology, Denmark.

4. APPLICATION / LIMITATION :

4.1- 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").

On board installation & Maintenance requirements :

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

4.3- Flame spread, smoke characteristics and calorific value of the lining to be as per Rule requirements.

5. PRODUCTION SURVEY REQUIREMENTS :

In accordance with the Society's Rule Note NR320 R1, as per Hbv rules, arrangements shall be made for a Society's Surveyor to carry out, on a periodic basis, visit of the manufacturer's premises and product audits.

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 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 Type Approval Certificate N°06683/B1 BV issued by Bureau Veritas on January 24, 2001.

*** END OF CERTIFICATE ***