



MARINE DIVISION

Certificate number: 19955/A1 BV

File number: ACI 1000/353/029

Product code: 5020H

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

ROCKWOOL A/S
Hedehusene - DENMARK

for the type of product

A15 CLASS BULKHEADS
A-15 CLASS BULKHEAD

Requirements:

SOLAS 74, as amended, Chapter II.2 - BV Rules Part C Chapter 4

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 mentioned above.

This certificate will expire on: 08 Oct 2015

For BUREAU VERITAS,

At BV COPENHAGEN, on 22 Oct 2010,

Bengt Sangberg



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 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 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-15 CLASS BULKHEAD

Structural steel bulkhead insulated with :

Construction	Product Description	Application / Limitations
A-15 Bulkhead, Steel Rockwool ShipRock Plus 60 mm / 60 mm	A-15 Bulkhead, Rockwool ShipRock Plus Mineral wool Rockwool ShipRock Plus density 27 kg/m ³ 60mm thick between and around stiffeners. The space between the stiffener's flange and the bulkhead plate is filled with mineral wool. Maximum distance between 2 pins : 300 mm	Fire against either side.

2. DOCUMENTS AND DRAWINGS :

As Manufacturer's drawings attached in tests reports mentioned in § 3.

3. TEST REPORTS :

Test report N° PG11408 dated 31.01.2005 as per IMO A754 (18) from DIFT, Denmark.
Assessment report dated 21.03.2005 from DIFT, Denmark.

4. APPLICATION / LIMITATION :

- 4.1- The fitting aboard to be the same as used for the test.
- 4.2- Flame spread, smoke characteristics and calorific value of the lining to be as per applicable regulations.
- 4.3- The insulating materials shall comply with the requirements of BV Rules, to the satisfaction of the Society for acceptance of the division on board the concerned ship.

5. PRODUCTION SURVEY REQUIREMENTS :

The products are to be manufactured, examined and tested by Rockwool A/S in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.

Production sites are to be recognized by Bureau Veritas as per NR320 for HBV products. To this end Rockwool A/S has to make the necessary arrangements for a Society's Surveyor to perform visits and product audits at the production sites.

6. MARKING OF PRODUCT :

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

7. OTHERS :

This approval is given with the understanding that the manufacturer will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of fitting and general maintenance of the approved equipment and the conditions of this approval.

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