



MARINE DIVISION

Certificate number: 19965/A0 BV

File number: ACI 1300/174/003

Product code: 5230H

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

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to

ROCKWOOL A/S

Hedehusene - DENMARK

for the type of product

SURFACE LININGS

Mineral wools with surface materials

Requirements:

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

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: 24 Aug 2015

For BUREAU VERITAS,

At BV FREDERICIA, on 24 Aug 2010,

Arne Madsen



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. 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 :

Surface material

Mineral wool with surface materials.

Surface materials	Adhesive	Support material
Aluminium foil 77g/m ² + glass net 24 g/m ²	Polyethylene 30 g/m ²	Rockwool 130 kg/m ³
Aluminium foil 77g/m ² + glass net 24 g/m ²	Polyethylene 30 g/m ²	Rockwool 32-45 kg/m ³
Aluminium foil 77g/m ²	Polyethylene 25 g/m ²	Rockwool 110 kg/m ³
Aluminium foil 54g/m ² + glass net 22 g/m ²	Polyethylene 70 g/m ²	Rockwool Pipe Section 60 kg/m ³
Glass cloth 215 g/m ²	80 g/m ²	Marine Batts 45 kg/m ³
Glass cloth 215 g/m ²	80 g/m ²	Marine Firebatts 110-130 kg/m ³
Glass cloth 200 g/m ²	80 g/m ²	Marine Batts 45 kg/m ³
Glass cloth 200 g/m ²	80 g/m ²	Marine Firebatts 110-130 kg/m ³
Glass cloth 210 g/m ²	80 g/m ²	Marine Batts 45 kg/m ³
Glass cloth 210 g/m ²	80 g/m ²	Marine Firebatts 150 kg/m ³

2. DOCUMENTS AND DRAWINGS :

None.

3. TEST REPORTS :

Trade name	Test report	Testing laboratories
Aluminium foil 77g/m ² + glass net 24 g/m ²	F10449 PF10798b	DIFT DIFT
Aluminium foil 77g/m ²	PF10798c	DIFT
Aluminium foil 54g/m ² + glass net 22 g/m ²	PF10798d	DIFT
Glass cloth 215 g/m ²	PF11113A PF11113B	DIFT DIFT
Glass cloth 200 g/m ²	PF11191A PF11191B	DIFT DIFT
Glass cloth 210 g/m ²	PF12473A PF12473B	DIFT DIFT

Tests as per IMO A.653(16) resolution.

4. APPLICATION / LIMITATION :

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

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 *****