

Certificate No:
MED-B-9295
 Item No:
A1/3.11a
 Job Id:
344.1-004353-2

EC TYPE EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2012/32/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the "A" Class divisions, fire integrity

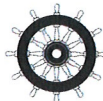
with type designation(s)
Steel Bulkhead A-60 (corrugated steel) with SeaRox SL 620

Issued to
Rockwool International A/S
HEDEHUSENE, Denmark

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/3.11a and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2/3.2.5 and IMO FTP Code.

Further details of the equipment and conditions for certification are given overleaf.

Høvik, 2014-09-02
 for **DNV GL**



This Certificate is valid until
2019-09-02

M. Valderhaug
Marianne Strand Valderhaug
 Head of Department

Notified Body No.: **0575**

DNV GL local office:
Copenhagen

M. Gjelstad
Martin Gjelstad
 Surveyor



The Certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this Certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended. The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.



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Product description

"Steel Bulkhead A-60 (corrugated steel) with SeaRox SL 620"

Is a corrugated steel bulkhead made from 4 mm steel with corrugation dimensions: 260x310x25 mm, pitch 570 mm. The bulkhead is insulated with two layers of mineral wool of type SeaRox SL 620 (100 kg/m³) with thickness 30 mm (outer layer) and 50 mm (inner layer). The inner layer is installed in horizontal direction whereas the outer layer is installed in vertical direction. The insulation is fastened to the bulkhead with 3 mm steel pins and 38 mm washers (about 9.8 pins per square meter).

Alternatively, the steel bulkhead may be made from 2 mm steel with corrugation dimensions: 100X67.5X65 mm, pitch 335 mm. The bulkhead is insulated with two layers of mineral wool of type SeaRox SL 620 (100 kg/m³) with thickness 30 mm (outer layer) and 50 mm (inner layer). The inner layer is installed in horizontal direction whereas the outer layer is installed in vertical direction. The insulation is fastened to the bulkhead with 3 mm steel pins and 38 mm washers (about 15.8 pins per square meter).

For further details see drawing mentioned under Type Examination documentation below.

Application/Limitation

Approved for use as a non-loadbearing fire retarding vertical division of class A-60.

The use of this product shall be limited to applications specifically approved by the Administration in question, see IMO 2010 FTP Code part 3, Appendix 1, items 1.12 and 1.13. The construction shall in any case not be used as part of main fire zone bulkheads and stairways enclosures on passenger ships (see also IMO MSC/Circ.1005).

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity. This requirement may also be applicable for surface materials used, if required by relevant rules and regulations.

Each product is to be supplied with its manual for installation/application and maintenance

Type Examination documentation

Test Report No. 2013CS013207/1 dated 18 November 2013 and No. 2013CS013207/5 dated 6 June 2014 from RINA, Italy.

Drawing No. 2013-34 and No. 2013-37 both dated 26 September 2013 from the manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

The product is to be marked with name of manufacturer, type designation, fire technical rating, the Mark of Conformity and USCG Approval Number if applicable (see page 3).



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Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.

USCG Approval

An U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005.

