

# EC-TYPE EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2014/93/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS 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 A60 with SeaRox FB 6020/SeaRox FB 6050**

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 2010 FTP Code.**

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

**Høvik, 2015-09-29**  
for **DNV GL AS**



This Certificate is valid until  
**2020-09-28**

**Vidar Dolonen**  
Head of Department

Notified Body No.: **0575**

DNV GL local office:  
**Copenhagen**

  
**Silje Helene Waagaard**  
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.

Job Id: **344.1-004872-1**  
Certificate No: **MEDB0000060**

## Product description

"Steel Bulkhead A60 with SeaRox FB 6020/SeaRox FB 6050"  
composed of steel bulkhead insulated with SeaRox FB 6020 (density 40 kg/m<sup>3</sup>) between the stiffeners and SeaRox FB 6050 of density (density 70 kg/m<sup>3</sup>) around and upon the stiffeners.

Minimal thickness of the insulation on the bulkhead between the stiffeners is 70 mm. Minimal thickness of the insulation around and upon the stiffeners is 30 mm. Insulation density range on the bulkhead between the stiffeners is 40-100 kg/m<sup>3</sup> and on stiffeners is 70-100 kg/m<sup>3</sup>.

The insulation is fixed to the bulkhead by means of standard 3 mm pins in combination with 30-38 mm diameter steel clips (spring washers).

Distance between pins on the stiffeners is maximum 300 mm. Distance between pins on the bulkhead (between stiffeners) is maximum 300 mm.

For further details about pin-settings and design see drawings listed under Type Examination documentation below.

## Application/Limitation

Approved for use as a vertical fire retarding division of class A-60. Restricted application: Fire against insulated side.

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, use and maintenance.

## Type Examination documentation

Test report No. PGA10657, dated 30<sup>th</sup> of April 2015, from DBI (Danish Institute of Fire and Security Technology), Hvidovre, Denmark.

Assessment Report Nos.:

- PHA10627a
- PHA10627b
- PHA10627c
- PHA10627d
- PHA10627e

All assessment reports dated 7<sup>th</sup> of July 2015, from DBI (Danish Institute of Fire and Security Technology), Hvidovre, Denmark.

Drawing Nos. 140-1, 140-2, 140-3, 140-4 & 140-5, dated 2<sup>nd</sup> of July 2015, 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 MED Mark of Conformity and USCG approval number if applicable (see below).



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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

A 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.



*gjen*