DNV·GL

Certificate No:
TAF00000SJ

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class A Bulkhead

with type designation(s)
A-60 Steel Bulkhead PNR-128

Issued to
Rockfibras do Brasil Industria e Comercio Ltda
Guararema SP, Brazil

is found to comply with
DNV GL offshore standards
DNV GL rules for classification – Ships
DNV GL statutory interpretations DNVGL-SI-0364 – SOLAS interpretations

Application :

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

This certificate is recognised by Transport Canada.

Product approved by this certificate is accepted for installation on all vessels classed by DNV GL.

Issued at **Høvik** on **2017-08-21**
This Certificate is valid until **2022-08-20**.
DNV GL local station: **Rio de Janeiro, SiO**

Approval Engineer: **Tomasz Werchowicz**

for **DNV GL**

Mårten Schei-Nilsson
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Product description

"A-60 Steel Bulkhead PNR-128"
Consists of a steel bulkhead covered with one layer of 50 mm thick Stone Wool panels type PNR-128 (nominal density 128 kg/m^3) between and upon the stiffeners. On the stiffeners, the insulation width is 170 mm.

Minimum insulation thickness (for bulkhead and stiffeners) at any point is 50 mm.

Anchoring of insulation to bulkhead and stiffeners is done with Ø3 x 60 mm welded pins with Ø40 washers on top.

For further details, including spacing of welded pins and pinning in connection with joints, see the drawing listed under Type Approval documentation below.

Application/Limitation

Any surface materials used have to be approved for smoke and toxicity and low flame spread characteristics (IMO 2010 FTP Code Parts 2 and 5) when required according to relevant rules.

Restricted application: Fire against insulated side.

Each product is to be supplied with its manual for installation and use.

Type Approval documentation

Certification in accordance with Class Programme DNVGL-CP-0338, October 2015.

Test report No. 1000 533-203 dated 18th September 2009, from Instituto de Pesquisas Tecnológicas (IPT), São Paulo, Brazil.
Drawing No. 4/5419-I0-6033 dated 15th September 2009 from Rockfibras Do Brasil Ind. Com. Ltda.

Tests carried out

Tested according to IMO FTPC Part 3 and in compliance with IMO 2010 FTP Code Ch.8.

Marking of product

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

Periodical assessment

DNV GL's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Class Programme DNVGL-CP-0338, Section 4.