

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Horizontal Class A Division**with type designation(s)
DBA60 (II) type A-60 Class Floating floor

Issued to

Huanan Building Materials (Shenzhen) Co., Ltd.
Dongguan City Guangdong, Chinais found to comply with
DNV GL rules for classification – Ships
DNV GL offshore standards
DNV GL statutory interpretations DNVGL-SI-0364 – SOLAS interpretations**Application :****Approved for use as a horizontal fire resisting division of class A-60.****This certificate is recognized by Transport Canada****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**Issued at **Høvik** on **2018-01-15**This Certificate is valid until **2022-12-31**.for **DNV GL**DNV GL local station: **Guangzhou FiS**Approval Engineer: **Piotr Orzechowski**.....
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.



Job Id: **262.1-016656-3**
Certificate No: **TAF00000W2**

Product description

"DBA60 (II) type A-60 Class Floating floor"

constructed of a 5 mm class steel deck insulated on top with floating floor components - 1960 mm x 450 mm (max. length x width) made of 50 mm rock wool of density 150 kg/m³ (Fibertex Maritime R150 by Rockwool Firesafe Insulation (Guangzhou) Co., Ltd.) covered by a 3 mm steel plate. Adhesive type "TH-99A" is used between the insulation and the 3 mm steel plate.

Total thickness of floating floor: 53 mm.

The floating floor components are connected by spot welding every 600 mm.

For further details, see the drawing listed under Type Approval documentation below.

Application/Limitation

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

Any surface materials used have to be approved for smoke and toxicity and low flame-spread characteristics (IMO 2010 FTP Code Annex 1 Parts 2 and 5) when required according to relevant rules.

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

Type Approval documentation

Certification in accordance with Class Programme DNVGL-CP-0338, October 2017.

Test report No. FT09092 dated 1 June 2009 from Far East Fire Testing Centre (FEFTC), Shanghai, China.

Drawing No. Q354HN60-00SY (6 pages) dated 14 April 2009 from manufacturer.

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.

Transport Canada Approval

Based on the procedures laid down in the Transport Canada Publication entitled "*Approval Procedures for, Life Saving Equipment and Structural Fire Protection Products (TP 14612)*", Det Norske Veritas confirms that the product/s listed in this certificate is/are in accordance with Transport Canada's requirements.

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.