

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Horizontal Class A Division**

with type designation(s)

Steel Deck A-60 HB Soluble Wool

Issued to

**Shandong Minye Refractory Fibre Co., Ltd.
Zibo, China**

is found to comply with

DNV GL statutory interpretations DNVGL-SI-0364 – SOLAS interpretations**DNV GL rules for classification – Ships****DNV GL offshore standards****Application :****Approved for use as a horizontal fire retarding 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 **2019-12-27**This Certificate is valid until **2024-12-26**.for **DNV GL**DNV GL local station: **Qingdao**Approval Engineer: **Helge Bjørnarå**

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: **262.1-031870-1**
Certificate No: **TAF00001C9**

Product description

Steel Deck A-60 HB Soluble Wool, composed of a structural steel deck insulated on the underside with one layer of 50 mm HB Soluble Wool (60 kg/m³) between stiffeners and one layer applied across the tops of stiffeners following their contours.

The insulation is fastened with 3 mm steel pins (15 ea/m²). Max. spacing between pins is 400 mm. Max spacing to insulation edges is 100 mm. Additional pins and washers are used on the stiffeners.

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

Application/Limitation

Approved for use as a horizontal fire retarding 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, September 2018.

Test report No. FT19256 dated 15th October 2019 from Far East Fire Testing Centre, Shanghai, China.

Dwg. "Steel Deck A60 HB Soluble Wool" dated 18th June 2019 from maker.

Tests carried out

Tested according to IMO 2010 FTP Code Part 3.

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)", DNV GL 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.