DNV·GL

Certificate No:
TAF0000149

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class A Bulkhead

with type designation(s)
HMTB-96 Type Class A-60 Fire Bulkhead

Issued to
Tianjin Haimen Building Material Co., Ltd.
Langfang, Hebei Province, 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 Class A-60 Bulkhead.

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 **2019-04-01**
This Certificate is valid until **2024-03-31**.
DNV GL local station: **Dalian**

Approval Engineer: **Krzysztof Kolakowski**

for **DNV GL**

Jowita Permoda
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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Job Id: **262.1-029108-1**
Certificate No: **TAF0000149**

Product description
"HMTB-96 Type Class A-60 Fire Bulkhead"
composed of stiffened steel bulkhead insulated with one layer of 40 mm thick type "HMT-96" ceramic wool with density of 96 kg/m^3 (manufactured by Tianjin Haimen Building Material Co., Ltd.) between and around the stiffeners. The insulation is fixed on the unexposed side by ø3 mm steel pins with ø30 mm washers.

Pins between stiffeners are positioned in square pattern in such manner that the maximum distance between pins is 300 mm horizontaly and 250 mm verticaly. Maximum distance between insulation panels joint and pins is 50 mm.

For further details, see Type Approval documentation below.

Application/Limitation
Approved for use as a Class A-60 Bulkhead.

General application: Fire against either side.

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, use and maintenance.

Type Approval documentation
Certification in accordance with Class Programme DNVGL-CP-0338, September 2018.

Test report no. FT18160 dated 15 August 2018 from Far East Fire Testing Centre (FEFTC), Shanghai, China.

Drawings:
- no. THK40(HMTB-96)-01
- no. THK40(HMTB-96)-02
- no. THK40(HMTB-96)-03

all dated 20 January 2018 from the manufacturer.

Tests carried out
Tested according to IMO Res. MSC.307(88) – 2010 FTP Code, Annex 1, 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 listed in this certificate is 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.