

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Horizontal Class B Division

with type designation(s)
T25A(AL) Type Aluminium Honeycomb Core Class B-0 ceiling

Issued to

Huanan Building Materials (Shenzhen) Co., Ltd.
Shenzhen, Guangdong, China

is found to comply with

DNV rules for classification – Ships

DNV offshore standards

DNV statutory interpretations DNV-SI-0364 – SOLAS interpretations, Edition July 2021

Application :

Approved for use as a horizontal fire retarding division of class B-0

This certificate is recognized by Transport Canada.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Høvik** on **2022-03-01**

This Certificate is valid until **2027-02-28**.

DNV local station: **China South NB**

for **DNV**

Approval Engineer: **Karolina Kusmider**

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Helene David-Andersen
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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

"T25A(AL) Type Aluminium Honeycomb Core Class B-0 ceiling"

Ceiling panels composed of 0.55 mm galvanized steel sheets around an insulating core made of a 23.3 mm thick honeycomb structure. The honeycomb structure is a 0.06 thick aluminium foil made of regular hexagon with edge length 7.5 mm. The insulating core and steel sheets are glued to each other with adhesive type YB2003/YB8001 produced by Shanghai Ningrui Adhesives Science & Technology Development Co., Ltd. The panels are joined together by means of tongue and groove type joints (groove depth 21 mm).

Total thickness of the panels is 25 mm.

For further details see approved drawings listed under Type Approval documentation below.

Application/Limitation

Approved for use as a horizontal fire retarding division of class B-0.

Maximum panel size: 550 x 3030 mm (W x L)

Maximum ceiling length: 3040 mm

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

Any adhesive used, other than the one used during testing, has to be tested for low flame spread characteristics according to IMO 2010 FTP Code Part 5.

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

Type Approval documentation

Certification in accordance with Class Programme DNV-CP-0338, September 2021

Test report No. FT18065 dated 8 May 2018 from Far East Fire Testing Centre (FEFTC), Shanghai, China.

Drawing No. Q354HN134-00SY, page 1-6, dated 30 January 2018.

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.

Transport Canada Approval

Based on the procedures laid down in the Transport Canada Publication entitled "Procedures for Approval of Life-Saving Appliances, Fire Safety Systems, Equipment and Products (TP14612)", DNV confirms that the product/s listed in this certificate is/are in accordance with Transport Canada's requirements.

Periodical assessment

DNV'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 DNV-CP-0338, Section 4.