

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the "B" Class divisions, fire integrity

with type designation(s)
HL-T25DX-I Type Class B-0 Ceiling

Issued to

Tianjin Huali Thermal Insulation Building Material Co., Ltd.
TIANJIN, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2019/1397**,
item No. MED/3.11b. SOLAS 74 as amended, Regulation II-2/3.4 & II-2/9, IMO 2010 FTP Code, IMO MSC/Circ.1120 and IMO MSC.1/Circ.1581

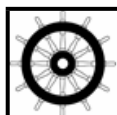
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-01-07**.

Issued at **Hamburg** on **2020-01-08**

DNV GL local station:
Tianjin

Approval Engineer:
Marcin Tobiasz



Notified Body
No.: **0098**

for **DNV GL SE**

Gerhard Aulbert
Head of Notified Body

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU. This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled. Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



Product description

"HL-T25DX-I Type Class B-0 Ceiling"

Ceiling is made of panels installed 450 mm (to the underside of ceiling) below an A-class deck. The panels are composed of 24.5 mm thick rock wool insulation of type THY-120 (manufactured by Tianjin Huali Thermal Insulation Building Material) with nominal density of 120 kg/m³ covered on exposed sides by 0,5 mm steel sheets. The steel plates are perforated with sound-absorbing holes with diameter of ø3 mm and with diagonal distance of c/c approx. 5 mm.

Total thickness of the ceiling is 25 mm.

The panels are fastened to each other by means of 5 ceiling hanging beams running transversely to the panels and 1 middle hanging beam connecting shorter edge of panels. Hangers are connecting the beams to the steel deck.

Maximum distance between hangers (along the beam): 1500 mm.

Maximum distance between beams (along the panel): 1200 mm.

Maximum distance from bulkhead to the nearest beam: 200 mm.

For further details refer to the test reports listed under Type Examination documentation below.

Application/Limitation

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

Maximum size of panels: 275 x 2450 mm (width x length).

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity. This requirement may also be applicable for surface materials used, if required by relevant rules and regulations.

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

Type Examination documentation

Test report: No. FT19141 dated 6 July 2019 issued by Far East Fire Testing Centre (FEFTC), Shanghai, China.

Drawings Nos. from HL-T25DX-I-00 to HL-T25DX-I-05, dated January 2019 from the manufacturer.

Tests carried out

Tested according to IMO Resolution MSC.307(88) - IMO FTP Code Annex 1, Part 3.

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, fire-technical rating, the MED Mark of Conformity and USCG approval number if applicable (see first page).