

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of Norway.

This is to certify:

That the "B" Class divisions, fire integrity

with type designation(s)

T25D Type Class B-0 Suspend Type D Microporous Ceiling

Issued to

**CSSC - Jiangxi Chao Yang Machinery Co., Ltd.
PENGZE, JIANGXI, 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

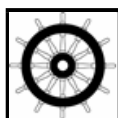
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-01-06**.

Issued at **Høvik** on **2020-01-07**

DNV GL local station:
Wuhan CMC

Approval Engineer:
Joanna Kowalczuk



Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005, and amended by Decision No 1/2019 dated February 22nd, 2019.

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 AS 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"T25D Type Class B-0 Suspend Type D Microporous Ceiling"

composed of an insulation core made of 25 mm thick "KMD-Y" rock wool (manufactured by Tianchang KMD New Insulation materials Co. Ltd.) with nominal density of 80 kg/m³, mounted with 0.56 mm thick galvanized steel plate. The steel sheets are perforated with ø2.5 mm holes (max 7.8 c/c) .

Panels are connected together by two main runners and are mounted to deck with hangers and M8 bolts. The panels are joined together at shorter edge with connection runner (T-type beam), which is suspended to the deck by hangers and M8 bolts.

Total panel thickness is 25 mm.

The ceiling panels may incorporate:

- Access panel – with dimension of 575 mm x 575 mm (W X L) insulated with 25 mm thick "KMD-Y" rock wool (manufactured by Tianchang KMD New Insulation materials Co. Ltd.) with nominal density of 120 kg/m³ glued to 1mm thick profiled galvanized steel sheet. Access panel is fitted with hinge and lock.
Maximum clear opening: 545 mm x 545 mm.
- Light set – with dimension of 275 mm x 1256 mm (W X L) made of 0.56 mm galvanized steel.
- Diffuser panel – with dimension 275 mm x 275 mm (W X L) made of 0.56 mm galvanized steel.

For more details about the ceiling and fittings please see drawings listed under Type Examination documentation below.

Application/Limitation

Ceiling panels are approved for use as a fire retarding division of class B-0.

Maximum panels size: 300 x 2450 mm (W x L)

Maximum distance between hangers, longitudinal direction: 900 mm

Maximum distance between hangers, transvers direction: 600 mm

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. FT18027 dated 14 March 2018 from Far East Fire Testing Centre, Shanghai, China.

Test report No. FT18028 dated 21 March 2018 from Far East Fire Testing Centre, Shanghai, China.

Drawing No. 354CYC41-00SY1 (5 sheets), dated 15 August 2017 from manufacturer
Drawing No. 354CYC41-00SY2 (5 sheets), dated 15 August 2017 from manufacturer
Drawing No. Q/CYC55.1 (2 sheets), dated 15 August 2017 from manufacturer
Drawing No. Q/CYC55.2 (2 sheets), dated 15 August 2017 from manufacturer
Drawing No. Q/CYC55.3, dated 15 August 2017 from manufacturer
Drawing No. Q/CYC55.24 (2 sheets), dated 15 August 2017 from manufacturer
Drawing No. Q/CYC55.13, dated 15 August 2017 from manufacturer
Drawing No. Q/CYC55.15, dated 15 August 2017 from manufacturer
Drawing No. Q/CYC55.16, dated 15 August 2017 from manufacturer
Drawing No. Q/CYC55.18, dated 15 August 2017 from manufacturer
Drawing No. Q/CYC55.18, dated 15 August 2017 from manufacturer



Job Id: **344.1-009405-1**
Certificate No: **MEDB00005F5**

Drawing No. Q/CYC02.171, dated 15 August 2017 from manufacturer
Drawing No. 354CYC41-1-0, dated 15 August 2017 from manufacturer
Drawing No. 354CYC41-4-0, dated 15 August 2017 from manufacturer
Drawing No. 354CYC41-3-0, dated 15 August 2017 from manufacturer

Tests carried out

Tested according to IMO 2010 FTP Code Part 3.

Marking of product

The product 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).