



Certificate no.:
TAF00001WY

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Horizontal Class B Division

with type designation(s)

T50DXY type Continuous B-15 class Ceiling/A-30 Class combined deck

issued to

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

is found to comply with

DNV offshore standards

DNV rules for classification – Ships

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

Application:

Approved for use as a horizontal fire retarding division of class B-15

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 **2024-06-04**

This Certificate is valid until **2029-06-03**.

for **DNV**

DNV local unit: **China South NB**

Approval Engineer: **Timo Linn**

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.



Form code: TA 251

Revision: 2023-09

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Product description

"T50DXY type Continuous B-15 class Ceiling/A-30 Class combined deck" is composed of "B-15" class ceiling + air layer + "A" class deck. T50DXY is composed of 2 x 25 mm thick marine rock wool insulation of type "Marine Rockwool Slab" (density 80 kg/m³, produced by ROCKWOOL Firesafe Insulation (Guangdong) Co., Ltd) mounted with 0.55 mm thick galvanized steel sheet on the underside. The steel sheet is perforated with Ø1.8 mm holes in diagonal distance of c/c approx. 2.5 mm.

Total panel thickness is 50 mm.

The panels are connected with the deck and together on the shorter edge by double ear connection runner with sockets and jointed with screws at each groove between panels.

Maximum distance between clamp (carriers) is 1500mm and maximum distance between T-carriers is 3020 mm. The thickness of the air layer between the ceiling and the "A" combined deck was 350 mm.

The Ceiling may be fitted with following fittings:

Continuous B-15 Class Ceiling, Type: T50DXY accessories list

SN	Name	Drawing No.	External dimensions of accessory (mm)	Cutting hole of Ceiling (mm)	Dimensions of the B-15 class box (mm)	Weight (kg)
1	SPOTLIGHTS	Q354HN172-1-05-01	Ø 110x26.2(H)	Ø80	240x240x130(H)	1.5
2	CABIN LIGHT	Q354HN172-1-06-01	Ø 177x80(H)	Ø 156	290x290x130(H)	3.8
3	DOWN LIGHT	Q354HN172-1-08-01	Ø210x370x103(H)	Ø180	340x560x104(H)	6.5
4	TYPED RECTANGULAR LIGHT	Q354HN172-1-09-01	324x1280x69(H)	300x1280	430x1400x104(H)	18.3
5	RECTANGULAR LIGHT	Q354HN172-1-10-01	248x1300x75(H)	220x1270	350x1390x104(H)	17.5
6	TOILET LOUDSPEAKER	Q354HN172-1-13-01	Ø100x49(H)	Ø71	240x240x130(H)	1.2
7	CABIN LOUDSPEAKER	Q354HN172-1-12-01	Ø170x114(H)	Ø136	290x290x160(H)	2.3

8	LOUDSPEAKER	Q354HN172-1-11-01	Ø205x103.7(H)	Ø180	290x290x160(H)	3.6
9	CAMERA	Q354HN172-1-07-01	Ø213x117.9(H)	Ø190	290x290x130(H)	6.5
10	PLENUM BOX & GRILLE	Q354HN172-1-14	Box specifications: W375xH375xD(Ø 248)	390x390	n/a	

The insulation material used for this "B-15" Class cover was rockwool. The rockwool was produced by ROCKWOOL Firesafe Insulation (Guangdong) Co., Ltd. According to the information provided by the client, rockwool has a nominal density of 120 kg/m³ and thickness of 30 mm.

The insulation material used for plenum box was bio wool marine blanket. The bio wool marine blanket was produced by Shandong Luyang Energy-saving materials Co., Ltd. According to the information provided by the client, rockwool has a nominal density of 64 kg/m³ and a thickness of 30 mm.

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

Application/Limitation

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Max. dimension of panels: 4220 x 300 (L x W).

Max. distance between hangers: 1200 mm

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

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

Type Approval documentation

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

Test report No. SDFS2305002992FR-01 dated 08 October 2023 SGS, Foshan, China.

Test report No. SDFS2308004964FR-01 dated 07May 2024 SGS, Foshan, China.

Drawing No. Q354HN152-00SY (11 sheets) dated 6 February 2023 from manufacturer.

Drawing No. Q354HN172-00SY (34 sheets) dated 23 April 2023 from manufacturer.

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 "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.