Certificate No:
TAS00003NT

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Weathertight Door

with type designation(s)
Quick Open & close GRP Weathertight Door

Issued to
Wuxi MNET Equipment Tech Co., Ltd.
Wuxi, Jiangsu, China

is found to comply with
DNV rules for classification – High speed and light craft
DNV rules for classification – Ships

Application :

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

Issued at **Høvik** on **2022-11-28**
This Certificate is valid until **2027-11-27**.
DNV local unit: **Jiangyin NB & CMC**

Approval Engineer: **Grzegorz Wolski**

for **DNV**

Thomas Revheim
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

Quick Open & close GRP Weathertight Door (262WHL045-00)
Weathertight single leaf door available in the following different sizes:

- 1400x650 (clear size in mm) with 6 steel cleats
- 1600x700 (clear size in mm) with 6 steel cleats
- 1700x800 (clear size in mm) with 8 steel cleats
- 1800x900 (clear size in mm) with 10 steel cleats
- 1850x750 (clear size in mm) with 8 steel cleats
- 1900x900 (clear size in mm) with 10 steel cleats

with 100 mm radiused corners, 3 steel hinges and a maximum design pressure of 0,04 MPa (4,0 mWc).

Door leaf made from GRP sandwich and door frame made from steel.

Gasket made from neoprene.

Optional sidescuttle with diameter Ø = 250 mm or rectangular window 450 mm x 650 mm made of marine safety tempered glass with thickness 10 mm, fitted in a steel frame.

Application/Limitation

The weathertight doors are found to comply with DNV-RU-SHIP Pt.3 Ch.12 Sec.2 [4], January 2022 for Weathertight doors and Sec. 6 for doors with installed windows or scuttles for the maximum design pressures of 0,04 MPa (4,0 mWc), as specified above.

The door has been Type Approved with respect to weathertightness only, i.e. fire integrity has not been considered.

The doors may not be fitted in bulkheads where it is required that steel doors shall be used i.e. in galley, engine casing, etc. which may be considered as a space of greater fire risk.

The door may not be fitted in a bulkhead where the design pressure is higher than 0,04 MPa (4,0 mWc).

Dimensions of the light opening of the doors can be smaller than shown on the drawings, provided that scantlings, maximum distance between the cleats and fabrication method and material are maintained.

The Type Approval does not cover the supporting structure of the doors, which is subject to approval. Interface showing door frame and bulkhead shall be submitted for case-by-case approval by yard/end user.

Particular consideration shall be given if located in highly stressed areas or in areas critical to fatigue from global hull loads.

The complete installation shall be function and leak tested according to DNV-RU-SHIP-Pt2 Ch4 Sec.8 January 2022.

A door with window may not protect openings into enclosed superstructures or below freeboard deck.

A door with side scuttle/window is to be fitted with a dead light if located in a position where dead light is required for windows and side scuttles.

Type Approval documentation

Drawing no. 262WHL045-00 Rev. A (General Drawing) from manufacturer
Drawing no. 262WHL045-00-01 Rev. A (Window detail) from manufacturer
Drawing no. 262WHL045-00-02 Rev. A (structure plan) from manufacturer
Drawing no. 262WHL045-00-03 Rev. A (Internal structure) from manufacturer

Tests carried out

Hydraulic pressure testing dated 2017-09-28 witnessed by DNVGL Jiangyin Surveyor.

Marking of product

The product is to be marked with the following info:

- Manufacturer's name or brand
- DNVGL Type Approval Certificate No. TAS00003NT
- Type designation: Quick Open & close GRP Weathertight Door
- Max allowable design pressure as specified above

Periodical assessment

DNV surveyor has the permission to perform Certification Retention Survey at any time during the validity period of this certificate. Periodical assessment will be required after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the approval are complied with. Reference is made to DNV-CP-0338