DNV·GL

Certificate No:
TAS00001F6

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Weathertight Door

with type designation(s)
Single-handle quick open & closing weathertight GRP door

Issued to
Wuxi Xinfan Marine Equipment Co., Ltd.
Wuxi, 100, China

is found to comply with
DNV GL rules for classification – Ships

Application :

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

Issued at **Høvik** on **2018-04-27**
This Certificate is valid until **2023-04-26**.
DNV GL local station: **Jiangyin**

for **DNV GL**

Approval Engineer: **Alessandro Russo**

Arild Rogne
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.

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Product description

Weathertight single leaf door available in the following different sizes:

- 1200x600 (clear size in mm)
- 1400x700 (clear size in mm)
- 1500x800 (clear size in mm)
- 1600x900 (clear size in mm)
- 1800x900 (clear size in mm)
- 1900x900 (clear size in mm)

with 110 mm radiused corners, 6 steel cleats, 3 steel hinges and a maximum design pressure of 0,025 MPa (2,5 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 8 mm, fitted in a steel frame.

Application/Limitation

The weathertight doors are found to comply with:

- DNVGL-RU-SHIP Pt.3 Ch.12 Sec.2 [4], January 2018 for Weathertight doors and Sec. 6 for doors with installed windows or scuttles and DNVGL-RU-SHIP Pt.2 Ch3, October 2015.

for the maximum design pressures of 0,025 MPa (2,5 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 0,025 MPa (2,5 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 DNVGL-RU-SHIP-Pt2 Ch4 Sec.8 January 2018.

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

Name of drawing	Drawing n.	Rev. n.
General Drawing（Window）	XF026-B-01-00	A/0
Side window node（Window）	XF026-B-01-01	A/0
Weathertight door embedded structure（Window）	XF026-B-01-02	A/0
Weathertight door Internal structure diagram of door page（Window）	XF026-B-01-03	A/0
General Drawing（Round window）	XF026-B-02-00	A/0
Round window node（Round window）	XF026-B-02-01	A/0
Weathertight door embedded structure（Round window）	XF026-B-02-02	A/0
Weathertight door Internal structure diagram of door page（Round window）	XF026-B-02-03	A/0

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. TAS00001F6
- Type designation
- Max allowable design pressure as specified above

Periodical assessment

DNV GL 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 DNVGL-CP-0338.