DNV·GL

Certificate No:
TAS00002EA

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Weathertight Door

with type designation(s)
Weathertight steel door WR100/WR30- A0

Issued to
Libra-Plast A/S
HAREID, Norway

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

Application :

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

Issued at **Høvik** on **2020-03-23**
This Certificate is valid until **2025-01-20**.
DNV GL local station: **Norway Newbuilding**

Approval Engineer: **Xiaolu Wu**

for **DNV GL**

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.

© DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS.

Product description

Weathertight steel door. The door blade has a plate thickness of 5mm and is supported by 5 horizontal 50x8mm stiffeners.

Light opening Height (mm)	Light opening Width (mm)	Toggles + hinges	Max design pressure (kN/m²)
1200	600	5 + 3	100
1400	600	5 + 3	85
1400	750	5 + 3	55
1400	850	5 + 3	43
1400	910	5 + 3	37
1600	600	5 + 3	75
1600	750	5 + 3	48
1600	850	5 + 3	37
1600	910	5 + 3	33
1800	600	5 + 4	67
1800	750	5 + 4	43
1800	850	5 + 4	33
1800	910	5 + 4	29
1900	600	5 + 4	63
1900	750	5 + 4	40
1900	850	5 + 4	31
1900	910	5 + 4	27
2000	600	5 + 4	60
2000	750	5 + 4	38
2000	850	5 + 4	30
2000	910	5 + 4	26
1360	580	5 + 3	95
1460	660	5 + 3	68
1460	810	5 + 3	45
1660	660	5 + 3	60
1660	810	5 + 3	40
1860	660	5 + 4	54
1860	810	5 + 4	35

Application/Limitation

The weathertight doors are found to comply with:

- DNVGL-RU-SHIP July 2019 Pt.3 Ch.12 Sec.2 [4] for Weathertight doors and Sec. 6 for doors with installed side scuttles.

- DNVGL-OS-C301 January 2017 Ch.2 Sec.2 [4] for Weathertight closing appliances.

The design pressure at the location where the doors are to be fitted shall be equal or less than the pressure above.

The door with side scuttle is to be fitted with a dead light if located in a position where dead light is required for sides scuttle.

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 door frame may be welded or bolted to the bulkhead (ref. drawing no. LG-3-00142 rev. B).

Fire safety:
With respect to fire safety properties please see separate DNV GL certificate MEDB00005ZF (expiring 20-01-2025) for these doors.

Type Approval documentation

Tests carried out
The complete installation shall be function and leak tested according to DNVGL-RU-SHIP July 2019 Pt.2 Ch.4 Sec.8 or DNVGL-OS-C301 January 2017 Ch.2 Sec.2 [9].

Marking of product
The product is to be marked with the following info:

- Manufacturer’s name or brand
- DNVGL Type Approval Certificate No. TAS00002EA
- 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.