DNV·GL

Certificate No:
TAS000022T

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Weathertight Door

with type designation(s)
Weathertight plastic door

Issued to
Kunststofftechnik Julitz GmbH
Buxtehude, Niedersachsen, Germany

is found to comply with
DNV GL rules for classification – Ships
DNV GL rules for classification – Offshore units
International Load Line Convention, 1966

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels/units classed by DNV GL. Limitation see page 3.

Issued at **Høvik** on **2019-06-30**
This Certificate is valid until **2024-06-29**.
DNV GL local station: **Hamburg**

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.

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Product description

These weathertight doors are made of fiberglass material. The doors are described below :

art.no.	Clear opening (mm)		no of	no of	max design load	Allowed position
	H	B	hinges	toggles	(kN/m²)	(Reg. 13 of ICLL)
64/100	605	605	2	2	41	1 & 2
64/101	800	800	2	2	22	1 & 2
64/102	1000	600	2	2	41	1 & 2
64/107	1200	600	2	2	41	1 & 2
64/103	1300	600	2	4	41	1 & 2
64/104	1400	600	2	4	41	1 & 2
64/105	1400	700	2	4	29	1 & 2
64/106	1400	900	2	4	17	1 & 2
64/114	1600	600	2	4	41	1 & 2
64/108	1560	650	2	4	34	1 & 2
64/109	1600	700	2	4	29	1 & 2
64/110	1600	800	2	4	22	1 & 2
64/111	1600	900	3	4	17	2
64/112	1600	750	2	4	26	1 & 2
64/115	1700	650	2	4	34	1 & 2
64/116	1700	700	2	4	29	1 & 2
64/165	1700	900	2	4	17	2
64/117	1800	600	2	4	41	1 & 2
64/118	1800	650	2	4	34	1 & 2
64/120	1800	700	2	4	29	1 & 2
64/122	1800	750	2	4	25	1 & 2
64/125	1800	800	2	4	22	2
64/130	1800	900	3	4	17	2
64/135	1900	700	3	4	29	1 & 2
64/145	1900	800	3	4	22	2
64/146	1930	830	3	4	20	2
64/150	1900	900	3	4	17	2
64/153	1950	900	3	4	17	2
64/155	1900	1000	3	4	14	2
64/160	1800	1020	3	4	14	2
64/164	2000	700	3	4	29	2
64/162	2000	800	3	4	20	2

Outside door:

1. Layer 700my Gelcoat GS 200S
2. Layer 900gr Fiberglass mat M705
3. Layer 600gr Fiberglass mat M705
4. Layer 450gr Fiberglass mat M705

Polyester resin: Synthopan 900

The thickness of the outside and inside laminate is 5mm. In the middle part the two sides are glued together to a minimum thickness of 10mm.

Application/Limitation

The doors have been type approved with respect to weathertightness only. The doors have not been considered with respect to fire protection.

The doors may be used in access openings according to DNVGL-RU-SHIP, Pt.3, Ch.12 Sec.2, 4, July 2018 and DNVGL-OS-C301, Ch.2, Sec.2, 4, January 2017 and International Load Line Convention, Ch. II, Reg. 12.

The doors are not to be located in bulkheads with higher design pressure than given in the table above.

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

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 support of the doors in the bulkheads, which is subject to approval. Drawings showing connection between door frame and bulkhead shall be submitted by yard/end user for a case-by-case approval.

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, Pt.2, Ch.4 Sec.8, July 2018 and DNVGL-OS-C301, Ch.2, Sec.2, 9, January 2017.

Type Approval documentation

Tests carried out

Pressure test of the GRP door with Nominal size 770 x 1870mm in Hamburg in November 1989.

Marking of product

The product is to be marked with the following info:

- Manufacturer’s name or brand
- DNVGL Type Approval Certificate No. TAS000022T
- Type designation
- Door art. no.

Periodical assessment

DNV GL has the permission to perform Certification Retention Survey at any time during the validity period of this certificate.

Periodical assessment shall 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.