DNV·GL

Certificate No:
TAS000029B

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Weathertight Door

with type designation(s)

Issued to

Schoenrock Hydraulik Marine Systems GmbH
Tornesch, Germany

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. See on page 2 limitations.

Issued at **Hamburg** on **2019-10-21**
This Certificate is valid until **2024-10-20**.
DNV GL local station: **Magdeburg, Germany**

Approval Engineer: **Aadil Wafdi**

for **DNV GL**

Andree Orth
Head of Section

Product description

These watertight doors are made of corrugated steel plate, and are sliding doors.

The watertight doors are described in the table below:

Door	Door Size		Plate Thickness	Edge Stiffeners				Design Pressure	Max toggle distance
#	Width [mm]	Heigth [mm]	t [mm]	Hw [mm]	Tw [mm]	Bf [mm]	Tf [mm]	P [kN/m²]	[mm]
OLD DOOR TYPE									
1	Min. 600, Max. 1200	Min. 1600, Max. 2000	6	45	10	70	20	100	375
2									
3									
4									
5									
6									
7									
8	Min. 1000, Max. 1200	2000	6	45	10	70	20	100	350
9									
10	1000	2100	10	45	10	70	20	220	273
11	1000	2100	10	150	20	0	0	530	191
NEW DOOR TYPE									
12	Min. 600, Max. 1200	Min. 1600, Max. 2000	6	45	10	70	20	100	470
13									
14									
15									
16									
17									
18									

Material: Min. Yield Strength door blade and frame: 355 N/mm^2

Application/Limitation

These doors may be fitted in watertight bulkheads were the use of watertight doors is accepted. The watertight door may be used in positions where the water pressure is equal to or less than the design pressure. The design pressure is stated in the table above .

Dimensions of the watertight doors can be smaller than shown on the drawings, as long as the distance between the cleats and the spacing of the stiffeners is equal to or less than values shown on provided drawings.

The type approval does not cover the support of the door in the hull structure; this support is subject to approval for the vessel in which the door is fitted.

Indication open/closed for the door shall be fitted on the bridge of the ship.

Type Approval documentation

Tests carried out
Test report dated 2009-02-18 witnessed by DNV GL surveyor.

Comments
Each door is to be hydraulically tested from the side which is most prone to leakage to design pressure at the manufacturer.

The tests are to be witnessed by a DNV GL surveyor.

Marking of product

- Manufacturer`s name or brand
- DNV GL Type Approval Certificate No. TAS000029B
- Product Certificate Number
- Maximum Allowable Pressure

Certificate retention survey
DNV GL's surveyor is to be given permission to perform Certification Retention Survey at any time during the validity period of this certificate.

END OF CERTIFICATE