

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Splashtight Door**with type designation(s)
MO2 - Aluminium door

Issued to

Winel B.V.
Assen, Netherlandsis found to comply with
DNV GL rules for classification – Ships
DNVGL-OS-C301 – Stability and watertight integrity**Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels and units classed by DNV GL.**Issued at **Høvik** on **2018-02-13**This Certificate is valid until **2023-02-12**.for **DNV GL**DNV GL local station: **Rotterdam, Offshore & Newbuilding**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.



Job Id: **262.1-007968-5**
Certificate No: **TAS000019M**

Product description

Splashtight Aluminium door with max height of 1850mm, 6mm thick door plate of 5083 H111 aluminium, 2 cleats and 2 adjustable hinges.

Max door width (mm)	Permissible design pressure in kN/m ²
600	27
650	23
700	20
750	17
800	15
850	14

Door frame:

75x50x5mm angle bar

The door may be fitted with a side scuttle (Ø200, Ø250 or Ø300 with 12mm toughened glass) or window (600x400mm with 12mm toughened glass).

The door may be fitted with 40mm insulation.

Application/Limitation

These doors are for external use but are not to be fitted in bulkheads that protect spaces that are to provide reserve buoyancy. I.e. they are not to be fitted in locations where the International Convention on Load Lines or DNVGL-OS-C301 require weathertight doors.

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

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 door may not be fitted in a bulkhead where the design pressure is higher than indicated in the table above.

Type Approval documentation

Title	Drawing no
Alu. Splashtight Musketeer Door LH 2 cl	421.11231.1850x700
Alu. Splashtight Musketeer Door LH 2 cl	421.11231.1850x850
Alu. Splashtight Musketeer Door LH 2 cl ISO	421.12231.1850x700
Alu. Splashtight Musketeer Door LH 2 cl ISO	421.12231.1850x850
Welding Doorplate 6-8mm	9582.002.01
Welding Frame	9582.003.01
Bulls eyes	321.06.00
Aluminium Window 600x400	321.08.11
Alu.Window for insulated door 600x400	321.08.12

Tests carried out

1475x700mm steel door with window has been hydrostatic pressure tested to 70 kN/m².

Marking of product

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The product is to be marked with the following info:

- Manufacturer's name or brand
- DNVGL Type Approval Certificate No. TAS000019M
- Type designation
- Max allowable design pressure as specified above

In addition:

(S) – If sidescuttle is fitted

(W) – If window is fitted

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 shall be done bi-yearly with a time window of +/- 3 months.