Certificate No:
**TAS00003SM**

# TYPE APPROVAL CERTIFICATE

## This is to certify:

**That the Weathertight Door**

with type designation(s)
**BOH.0160**

Issued to
**BOHAMET S.A.**
**Białe Błota**, **Poland**

is found to comply with
**DNV rules for classification – Ships**
**DNV rules for classification – High speed and light craft**

## Application :

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

Issued at **Høvik** on **2023-03-27**
This Certificate is valid until **2028-03-26**.
DNV local unit: **Gdansk CMC**

Approval Engineer: **Grzegorz Wolski**

for **DNV**

**Thomas Revheim**
**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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

## Product description

BOH.0160
Is a weathertight single leaf door available in different sizes with straight radiused corners.

Closing by single operated quick-acting closing system.

Door leaf made of GRP sandwich construction.

Coaming made from aluminium, steel, or stainless steel.

Hinges made from aluminium or stainless steel.

Toggles and quick-acting closing system made from stainless steel.

Seal made from EPDM rubber.

Optional portlight or square / rectangular window as listed.

Glazing material of toughened safety glass with thickness 12 mm fitted in a stainless-steel frame. Optional deadlight may be fitted.

| Model | Width (max.) | Height (max.) | Toggles | Hinges | Window | Porthole | Pressure [kPa] |
|---|---|---|---|---|---|---|---|
| BOH.0160.I | 800 | 2000 | 5 | 3 | 600x400 | Ø400 | 44 |
| BOH.0160.II | 700 | 2000 | 3 | 3 | 600x400 | Ø400 | 44 |
| BOH.0160.III | 700 | 1100 | 2 | 2 | 600x400 | Ø400 | 44 |

## Application/Limitation

The weathertight doors are found to comply with:
- DNV-RU-SHIP July 2018 Pt.3 Ch.12 Sec.2 [4] for Weathertight doors and Sec.6 for doors with installed windows or scuttles.
- DNV-RU-HSLC December 2015 Pt.3 Ch.6 Sec.3. for the maximum design pressures as specified above.

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

The doors shall 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 shall not be fitted in a bulkhead where the design pressure is higher than indicated in the table above.

Dimensions of the light opening of the doors can be smaller than shown on the drawings, if 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.

Consideration shall be given if located in highly stressed areas or in areas critical to fatigue from global hull loads.

From the strength and tightness point of view cylinder locks may fitted in the door. Depending on the location there could be restrictions preventing the use of locks in the doors, to be evaluated for the specific cases.

The complete installation shall be function and leak tested according to DNV-RU-SHIP-Pt.2 Ch.4 Sec.8 July 2017.

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

| | | |
|---|---|---|
| Drawing No. Z-D-004-M-15 | Rev.0 | dated 11 Mar. 2022 from manufacturer. |
| Drawing No. Z-D-004-M-16 | Rev.0 | dated 11 Mar. 2022 from manufacturer. |
| Drawing No. Z-D-011-M-05 | Rev.0 | dated 11 Mar. 2022 from manufacturer. |
| Drawing No. BOH.0160.II.01-1 | Rev.A | dated 08 Mar. 2023 from manufacturer. |
| Drawing No. BOH.0160.III.01 | Rev.0 | dated 08 Mar. 2023 from manufacturer. |

| | | |
|---|---|---|
| Drawing No. BOH.0160.III | Rev.A | dated 08 Mar. 2023 from manufacturer. |
| Drawing No. BOH.0160.I.01-1 | Rev.A | dated 08 Mar. 2023 from manufacturer. |
| Drawing No. BOH.0160.II | Rev.A | dated 08 Mar. 2023 from manufacturer. |
| Drawing No. BOH.0160.I | Rev.A | dated 08 Mar. 2023 from manufacturer. |
| Drawing No. BOH.0160.III.01-1 | Rev.A | dated 08 Mar. 2023 from manufacturer. |
| Drawing No. BOH.0160.II.01 | Rev.0 | dated 08 Mar. 2023 from manufacturer. |
| Drawing No. BOH.0160.I.01 | Rev.0 | dated 08 Mar. 2023 from manufacturer. |
| Drawing No. BOH.0160.02 | Rev.0 | dated 14 Jul. 2022 from manufacturer. |

## Tests carried out

According to DNV rules for classification: Class Programme DNV-CP-0338, September 2022.

## Marking of product

The product is to be marked with the following info:
- Manufacturer’s name or brand
- DNV Type Approval Certificate No. TAS00003SM
- The specific type designation: door

## Periodical assessment

DNV 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 DNV-CP-0338.