



Certificate no.:
TAS000043N

TYPE APPROVAL CERTIFICATE

This is to certify:
that the Watertight Hatch

with type designation(s)
N19/34.3705W

issued to
Fabryka Sprzętu Okretowego MEBLOMOR S.A.
CZARNKOW, 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 **2024-06-05**

This Certificate is valid until **2029-06-04**.

for **DNV**

DNV local unit: **Gdansk CMC**

Approval Engineer: **Grzegorz Wolski**

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.



Form code: TA 251

Revision: 2023-09

www.dnv.com

Page 1 of 3

Product description

N19/34.3705W

Is a hatch fabricated from 6.0- or 8.0-mm thick steel main plate. Plate is reinforced by four flat bars of 40 mm x 8 mm welded to the main plate. Edge of hatch is stiffened by gasket rim welded at 90-degree angle to the main plate.

Hatch is of single acting type with up to six linked toggles and wheel mounted centrally on hatch.

For further details see the drawings listed under Type Approval documentation below.

Application/Limitation

The application is limited to vessels built to DNV rules and for a design pressure as per table below.

Model 1IV1

Light opening (width) [mm]	Light opening (height) [mm]	Pressure [kPa]
630	630	25
730	730	25
740	740	25

Model 2VI1

Light opening (width) [mm]	Light opening (height) [mm]	Pressure [kPa]
630	830	25
830	630	25
830	830	25
830	1230	25
930	930	25
1030	1030	25

Type Approval documentation

Watertight appliances are subject to hydrostatic pressure test that can be done before installation on board of the vessel and shall be witnessed by a DNV surveyor. This test is to be made from the side that is most prone to leakage.

Watertight appliances are subject for hose and function testing after installation onboard the vessel, witnessed by a DNV surveyor, except in cases where plan approval of the hatch arrangement determines that tests are not required.

Hatches are calculated with respect to water pressure only, any other loading pattern (wheel loads etc.) is to be assessed on a case-by-case basis.

Hatches that are to be used as emergency exit type must be supported by counterweight, gas springs or spring hinges.

Dimensions of the light opening of the hatch can be smaller than shown on the drawings, if scantlings, maximum distance between the cleats and fabrication method and material are maintained.

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

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. TAS000043N
- The specific type designation: 1IV1 or 2VI1

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.