

# TYPE APPROVAL CERTIFICATE

**This is to certify:**  
**that the Weathertight hatch**

with type designation(s)  
**N19/34.271**

issued to  
**Fabryka Sprzetu 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 **2024-06-06**

This Certificate is valid until **2029-06-05**.

DNV local unit: **Gdansk CMC**

Approval Engineer: **Grzegorz Wolski**

for **DNV**



Digitally Signed By:  
Thomas Revheim  
Location: DNV Høvik, Norway

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

N19/34.271

Is a hatch fabricated from 6 mm thick steel main plate. Plate is reinforced by 40 x 8 mm stiffeners. 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. Other closing arrangements are available, see documentation for details.

### Model IV

Light opening (H) [mm]	Light opening (B) [mm]	Leaf cover [mm]	Toggle (T)	Hinge (H)	Gasket Rim [mm]	Pressure [kN/m <sup>2</sup> ]
600	600	6	4	2	40x8	25
650	650	6	4	2	40x8	25
700	700	6	4	2	40x8	25

### Model 1VI2

Light opening (H) [mm]	Light opening (B) [mm]	Leaf cover [mm]	Toggle (T)	Hinge (H)	Gasket Rim [mm]	Pressure [kN/m <sup>2</sup> ]
600	800	6	6	2	40x8	25
800	800	6	6	2	40x8	25
900	900	6	6	2	40x8	25
1000	1000	6	6	2	40x8	25

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 tables above.

Weather tight appliances are subject to 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 is to be assessed on a case-by-case basis.

Dimensions of the light opening of the hatch can be smaller than shown on the drawings, provided that 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.

### **Type Approval documentation**

Drawing no. N19/34.271 dated 16 Sep 2022 from manufacturer.

### **Tests carried out**

According to DNV rules for classification: Class Programme DNV-CP-0338, September 2023.

### **Marking of product**

The product is to be marked with the following info:

- Manufacturer's name or brand
- DNV Type Approval Certificate No. TAS000047Y
- The specific type designation:

### **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.