DNV·GL

Certificate No:
TAF00001EH

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Horizontal Class A Hatches

with type designation(s)
WRH-E-A0

Issued to
Libra-Plast A/S
HAREID, Norway

is found to comply with
DNV GL rules for classification – Ships
DNV GL offshore standards
DNV GL statutory interpretations DNVGL-SI-0364 – SOLAS interpretations

Application :

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

Approved for use as an integrated part of a horizontal fire retarding division of class A-0.

Issued at **Høvik** on **2020-06-19**
This Certificate is valid until **2025-06-18**.
DNV GL local station: **Norway Newbuilding**

Approval Engineer: **Synnøve Bolstad Eri**

for **DNV GL**

Øyvind Hoff
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 GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.

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Product description

"WRH-E-A0"
composed of single leafed hinged hatch with steel plate of 8 mm thickness. The hatch leaf is not insulated. The 8 mm thick steel leaf is fitted with internal horizontal stiffeners (for details see detailed drawings).

Total thickness of hatch leaf: 58 or 88 mm.

The hatch leaf is fixed to the 12 mm thick steel hatch coaming with multiple hinges. The hatch coaming may be welded or bolted (bolts of type M12x40, max. spacing 100 mm) to the deck. The connection between hatch leaf and coaming is sealed with neoprene gasket and intumescent gasket.

The hatch is equipped with a locking system consisting of main handle or wheel connected to several fixing points.

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

Application/Limitation

The hatch is approved for installation in steel decks of class A-0. Installation of the hatch in steel decks made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Max. clear opening: 1200 x 1200 mm (L x W).
Max hatch cover plate size: 1293 x 1293 mm (L x W).
Coaming depth: 600 mm

Any surface materials used have to be approved for smoke and toxicity and low flame spread characteristics (IMO 2010 FTP Code parts 2 and 5 or IMO FTPC Parts 2 and 5 when in compliance with the 2010 FTP Code Ch. 5.2 and 8) when required according to relevant rules and regulations.

Note that this is a fire safety certificate which only covers fire technical properties (i.e. not to cover any evaluations related to watertightness, weathertightness, etc.).

The construction and installation are to be in accordance the type approval documents listed below and with the manufacturer's manual for installation.

Type Approval documentation

Certification in accordance with Class Programme DNVGL-CP-0338, September 2018.

Test report No. 150071-35 dated 06 December 2019 from RISE, Trondheim, Norway.

Assessment No. 150101-51-Ver2 dated 13 March 2020 from RISE, Trondheim, Norway.

Drawing No. A-3-01499 Rev. 2 dated 28 February 2020 from manufacturer.
Drawing No. A-3-01500 Rev. 2 dated 28 February 2020 from manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code Part 3.

Marking of product

The product is to be marked with name of manufacturer, type designation and fire-technical rating.

Periodical assessment

DNV GL's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in DNVGL-CP-0338 Section 4.