

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Watertight Hatch**with type designation(s)
Aluminium flush hatch

Issued to

**Kontrail
Henderson, WA, Australia**

is found to comply with

DNV GL 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 GL.**Issued at **Høvik** on **2019-12-03**This Certificate is valid until **2024-12-02**.DNV GL local station: **Australia FIS/CMC**for **DNV GL**Approval Engineer: **Grzegorz Wolski****Chang Won Son
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.



Product description

"Aluminium flush hatch"

Is a hatch fabricated from 5 mm thick aluminium main plate. Plate is reinforced by two flatbars of 40 mm x 6 mm welded to the main plate by intermittent welding in middle and by double continuous welding at its ends. Edge of hatch is stiffened by 40 mm x 6 mm flatbar welded at 90 degree angle to the main plate. Additionally main plate has a recess of dimensions 50 mm x 300 mm x 25 mm (W x L x D) to hide the handle when it is not used.

Hatch is of single acting type with four linked toggles and handle mounted centrally on hatch.

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

Application/Limitation

The application is limited to vessels built to DNV GL rules for classification – High speed light craft and for a design pressure of not more than 40 kPa.

Max. clear opening: 800 mm x 800 mm (W x L)

Watertight appliances are subject to shop testing to design pressure, witnessed by a DNV GL surveyor, except in cases where plan approval of the hatch arrangement determines that tests are not required.

For application in internal watertight boundaries, hydraulic testing is to be done from the side which is the most prone to leakage.

Type Approval documentation

Test report No. N141VZMM Rev.01 dated 02 October 2019 from DNV GL.

Drawing No. KONTRAIL-6 Rev.C dated 05 February 2014 from manufacturer.

Tests carried out

According to DNV GL rules for classification: High Speed and Light Craft (2018-01)

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, approved pressure and certificate number.

Periodical assessment

DNV GL surveyor is to be given permission to perform a Certification Retention Survey at any time during the validity period of this certificate and at least every second year.