

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Penetration

with type designation(s)
RISE and RISE/NOFIRNO CABLE PENETRATION

Issued to
BEELE Engineering B.V.
Aalten, Gelderland, Netherlands

is found to comply with
DNV GL rules for classification – Ships
DNV GL rules for classification – Offshore units

Application :

Water- and Gastight Cable Penetration System for Steel or Aluminium Partitions

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

Issued at **Hamburg** on **2020-08-27**

This Certificate is valid until **2025-08-26**.

DNV GL local station: **Netherlands FIS**

for **DNV GL**

Approval Engineer: **Carsten Hunsalz**

.....
Arne Schaarmann
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.



Product description

Water- and Gastight Cable Penetration System for Steel or Aluminium Partitions

Type: RISE and RISE/NOFIRNO CABLE PENETRATION

The system comprise: RISE insert and filler sleeves,
RISE/NOFIRNO filler sleeves and
2 x 15 mm FIWA or NOFIRNO sealant

Dimension frame: Maximum size 200 mm x 170 mm x 6 mm, R60 mm,
with a depth of 90mm or equivalent 340 cm²

Tested for cables with diameter 10,2 up to 60 mm

Application/Limitation

Approved for air tightness up to a design pressure of 20mbar, test pressure - 30 mbar

Approved for water tightness up to a design pressure of 1.7 bar, test pressure - 2.5 bar

Penetration systems are not to be used for installation in bulkheads and decks when fire properties are required.

Penetration systems are not to be used for penetrating boundaries of tanks.

Each product is to be supplied with its manual for installation, use and maintenance.

Applications as cable penetrations through the ship's hull are subject to case-by-case approval.

Penetrations where cables are bundled in a single RISE sleeve are not allowed in gas- and watertight transits.

Type Approval documentation

- Test Report no. WT 1411-142 dated 2014-11-07 and 2015-01-23 (water-tightness, gas-tightness)
- Arrangement drawings (as tested positions) dated 2014-09-15:
 - . TO357: RISE sealing system for multi-cable transit – low filling rate
 - . TO359: RISE sealing system for multi-cable transit – high filling rate
 - . TO358: NOFIRNO sealing system for multi-cable transit – low filling rate
 - . TO360: NOFIRNO sealing system for multi-cable transit – high filling rate
- Beele Engineering product catalogue, Edition January 2013.

Tests carried out

Pressure tests with water and gas according to DNVGL-CP-0165 ch. 4.

Marking of product

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

Periodical assessment



Job Id: **262.1-034199-1**
Certificate No: **TAF00001FC**

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.