

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Class A and B Penetration**with type designation(s)
"B15-SPC" Variant A and Variant B

Issued to

**Roxtec GmbH
Hamburg, Germany**

is found to comply with

**DNV GL class programme DNVGL-CP-0165 – Type approval – Cable and pipe penetrations
DNV GL rules for classification – Ships
DNV GL offshore standards****Application :****Approved for use as penetration system for approved ship cables in B0 - B15 class divisions****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**Issued at **Hamburg** on **2019-05-08**This Certificate is valid until **2021-01-21**.DNV GL local station: **Hamburg CMC**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.



Product description

Electric cable penetration through "B0 - B15" class divisions

Components: The system consists of a preform by injection moulding with cylindrical body of length 54,5 mm, outer diameter 15 mm and a collar (diameter 23 mm, thickness 1,5 mm).
Variant A is made of the material SVV6551/70 and
Variand B of material SVV6551/71 rubber compound.
The B15-Plug can be installed slotted along the notch over the total length and secured at its end by two layers of a PVC-tape

Installation in vertical divisions:

The installation of a single cable with overall diameter $\leq 10\text{mm}$ or for sealing of existing drilling holes with diameter 15,5mm through 25 to 50 mm thick approved vertical "B0 - B-15" class divisions shall be carried out according to actual manufacturers installation instruction (B15-SPC-MA-NOV2018 DE or EN)

Installation in horizontal divisions:

The installation of a single cable with overall diameter $\leq 10\text{mm}$ or for sealing of existing drilling holes with diameter 15,5mm through 30 to 50 mm thick approved horizontal "B0 - B-15" class divisions shall be carried out according to actual manufacturers installation instruction (B15-SPC-MA-NOV2018 DE or EN)

Application/Limitation

Electric cable penetration through "B0 - B15" class divisions

Water- / Gas- tightness: Not applicable

Each product is to be supplied with its manual for installation and maintenance. The manual should include the installation drawings of the test reports listed under Type Approval documentation.

Type Approval documentation

Test report: DMT-DO-53-042, dated 16.06.2015
DMT-8116210440-50, dated 12.10.2018

Installation
Instruction: (B15-SPC-MA-NOV2018 DE or EN)

Insulation Drawings: RX- 20150521 Page 01 to 42
RX- 20180912 Page 02 to 19

Tests carried out

Fire Test acc. 2010 FTP Code, Annex 1: Part 3, IMO Resolution MSC.307(88)



Job Id: **262.1-028250-1**
Certificate No: **TAF000015U**

Marking of product

The product or packing 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.