DNV·GL

Certificate No:
TAE000000V

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Bulkhead/Deck Penetration

with type designation(s)
Roxtec sealing system with multidiameter technology: S-, RS- and R-series (steel)

Issued to
Roxtec International AB
KARLSKRONA, Sweden

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards

Application :

Cable penetrations approved for water tightness in steel division of bulkheads or decks. Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until .

Issued at **Høvik** on

for **DNV GL**

DNV GL local station: **Gothenburg**

Approval Engineer: **Ludovico Gullifa**

Marit Laumann
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.

© DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS.

Product description

"Roxtec sealing system with multidiameter technology: S-, RS- and R-series (steel)"

- S series steel frames (S, SF, SRC r20, SRC r40, SR, SK and SBTB) in sizes 2 to 8 and combinations thereof.
- RS series steel sleeve in sizes 23-150
- R series steel sleeve, reinforced versions, in sizes R 70 up to R 200
-

all welded to a steel section.The frame is filled with Roxtec (standard or EMC) halogen free RM modules.

Application/Limitation

Cable penetrations approved for water tightness in steel division of bulkheads or decks limited to a pressure of 6 bar.
The penetration system is generally not to be used for penetrating boundaries of tanks.
When requested to be used in watertight bulkheads on passenger ships and Special Purpose Ships (SPS), the penetration system has to comply with the requirements given in SOLAS Ch. II-1 Reg. 13.2.3 (2009 issue). Penetrations passing through watertight bulkheads are subject for separate examination and approval by actual flag administration.

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

Type Approval documentation

Tests carried out

Pressure tests with water according to Type Approval Programme 8471.19-1 dated May 2001

Marking of product

The product is to be marked with name of manufacturer and type designation

Periodical assessment

The scope of the periodical assessments to verify that the conditions stipulated for the Type approval is complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Assessment to be performed at least every second year.

END OF CERTIFICATE