



TYPE APPROVAL CERTIFICATE
No. LAB087222CS/001

This is to certify that the product identified below satisfies the requirements of the standard quoted under "Reference standard"

<i>Description</i>	Devices for the passage of pipes through A or B Class divisions
<i>Type</i>	Roxtec RS PPS/S Seal
<i>Applicant</i>	ROXTEC INTERNATIONAL AB ROMBVAGEN 2, BOX 540 SE-37123 Karlskrona SWEDEN
<i>Manufacturer</i>	ROXTEC INTERNATIONAL AB - ROXTEC SERVICES
<i>Place of manufacture</i>	AB ROMBVAGEN 2, BOX 540 SE-37123 Karlskrona SWEDEN
<i>Reference standards</i>	IMO Res. MSC.307(88)-(2010 FTP Code) - MSC.429(98) - MSC.1/CIRC.736

Issued in Genoa on October 19, 2022. This Certificate is valid until August 28, 2027

RINA Services S.p.A.

Enrico Cabella

This certificate consists of this page and 1 enclosure

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Roxtec RS PPS/S Seal

Product description

Circular stainless steel penetration seal type RS PPS/S for plastic pipes through bulkheads. The penetration is composed of two Roxtec seals and an intumescent sealing strip in the middle fitted on each side of a steel sleeve symmetrically welded to the bulkhead.

The penetration is to be insulated, on both the exposed and unexposed side of the bulkhead, with 2 layers (thickness 45 mm each) of mineral wool Rockwool type SeaRox WM 620, having a density of 90 kg/m³, cut in a circular pattern with a width of 250 mm measured from the sleeve; the sleeve is to be insulated, on both the exposed and unexposed side, with 2 layers of mineral wool Rockwool type SeaRox WM 620, having a density of 90 kg/m³, extending flush with end of sleeve.

Field of application

Fire resistant A-60 Class plastic pipe penetrations through steel bulkheads.

Type RS PPS/S size 43 mm; thermoplastic pipes having diameter 16 mm, with a sleeve thickness of 4 mm.

Type RS PPS/S size from 43 up to 150 mm; thermoplastic pipes having diameter ranging from 16 to 110 mm, with a sleeve thickness of 6.5 mm.

Watertightness pressure test of 2 bar; work pressure less or equal to 1.33 bar.

Reference documents

Roxtec drawing No. S1584159 dated 13 October 2022 (to be regarded only as far as transit insulation) and Roxtec drawings enclosed to the Test Report as per Danish Institute of Fire and Security Technology (DBI) No. PGB10164A dated 20 July 2022.

Statement as per Danish Institute of Fire and Security Technology (DBI) No. PGB10164B dated 21 July 2022.

Tests carried out

Fire resistance and watertightness Tests as per Danish Institute of Fire and Security Technology (DBI) No. PGB10164A dated 20 July 2022 according to IMO 2010 FTP Code, MSC.429(98).

General conditions for the approval

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- c) This certificate will no be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA
- d) RINA personnel are to allowed to witness during the performances of activities, upon their request
- e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reappraised prior to it being placed on board vessels to which the amended regulations or standards apply.

Genoa October 19, 2022

File Allegato/Attached file