



TYPE APPROVAL CERTIFICATE
No. LAB498522CS/006

This is to certify that the product identified below is in compliance with the regulations herewith specified.

<i>Description</i>	Devices for the passage of pipes through A or B Class divisions
<i>Type</i>	Roxtec SPM Seal
<i>Applicant</i>	ROXTEC INTERNATIONAL AB ROMBVAGEN 2, P.O. BOX 540 SE-37123 KARLSKRONA SWEDEN
<i>Manufacturer</i>	ROXTEC INTERNATIONAL AB
<i>Place of manufacture</i>	ROMBVAGEN 2, 37165 LYCKEBY SWEDEN
<i>Reference standards</i>	IMO Res. MSC.307(88)-(2010 FTP Code)

Issued in Genoa on June 5, 2023. This Certificate is valid until February 7, 2028

RINA Services S.p.A.

Enrico Cabella

This certificate consists of this page and 1 enclosure

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Roxtec SPM Seal

Product description

Circular pipe penetrations named SPM, composed of highly elastic EPDM rubber and fittings of stainless steel and having diameter ranging from 39 mm (type SPM 39) up to 279 mm (type SPM 279). The transits may be installed on the exposed or the unexposed side. The divisions are insulated by means of two layers of mineral wool (certified non-combustible according to the IMO FTP Code) having, each, minimum thickness of 30 mm thick and minimum density of 130 kg/m³; the bulkheads are fitted with the insulation on both sides whereas the decks on the lower side. The division insulation covers also the transits and is applied all around the same for a minimum width of 250 mm; the transits may be fitted with additional insulation, laid upon the division insulation, consisting of mineral wool cylinders equipped with steel wire (certified non-combustible according to the IMO FTP Code), having minimum thickness of 50 mm and minimum density of 100 kg/m³.

Fire resistant A-60 Class metallic pipe penetrations through aluminium bulkheads as per following tables:

COPPER

TYPE OF TRANSITS - PIPE DIAMETER	ADDITIONAL INSULATION
Transit SPM 39 - pipe diameter 8 mm	One layer having length of 400 mm fitted on the unexposed side
Transits from SPM 39 up to SPM 157 - pipe diameter greater than 8 mm up to 110 mm	Two layers having length of 600 mm fitted on the unexposed side

STEEL

TYPE OF TRANSITS - PIPE DIAMETER	ADDITIONAL INSULATION
Transit SPM 39 - pipe diameter 8 mm	One layer having length of 300 mm fitted on the unexposed side
Transits from SPM 39 up to SPM 279 - pipe diameter greater than 8 mm up to 222 mm	Two layers having length of 500 mm fitted on both sides

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Fire resistant A-60 Class metallic pipe penetrations through aluminium decks as per following tables:

COPPER

TYPE OF TRANSITS - PIPE DIAMETER	ADDITIONAL INSULATION
Transit SPM 39 - pipe diameter 8 mm	One layer having length of 400 mm fitted on the exposed side
Transits from SPM 39 up to SPM 157 - pipe diameter greater than 8 mm up to 110 mm	Two layers having length of 600 mm fitted on the exposed side

STEEL

TYPE OF TRANSITS - PIPE DIAMETER	ADDITIONAL INSULATION
Transit SPM 39 - pipe diameter 8 mm	No additional insulation
Transits from SPM 39 up to SPM 279 - pipe diameter greater than 8 mm up to 222 mm	Two layers having length of 600 mm fitted on the exposed side

Reference documents

Roxtec drawings included in CTO Reports No. RS-17/B-209/E and No. RS-17/B-210/E dated 2 June 2017.

Tests carried out

Tests as per CTO Reports No. RS-17/B-209/E and No. RS-17/B-210/E issued on 2 June 2017 according to IMO 2010 FTP Code - Annex 1 - Part 3.

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 reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.

Genoa June 5, 2023

File Allegato/Attached file