



**TYPE APPROVAL CERTIFICATE**  
**No. LAB180318CS/002**

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

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

*Issued in Genoa on December 19, 2018. This Certificate is valid until December 18, 2023*

**RINA Services S.p.A.**

*Enrico Cabella*

**This certificate consists of this page and 1 enclosure**

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**Roxtec S Series - Steel Deck**

**Product description**

Devices for the passage of electric cables having diameter ranging from 10 up to 86 mm through A Class decks. The transits are composed of a steel frame having thickness of 10 mm fillet welded to the deck plate and filled with EPDM halogen free material packing system; on the upper part it is installed one module fitted with a screw expander. The deck is insulated by means of two layers of mineral wool (certified non combustible in compliance to 2010 FTP Code) 50+30 mm thick and having density of 125 kg/m<sup>3</sup>.

**Reference documents**

Roxtec drawings enclosed in SP Test Reports No. 6P02249 dated 17 August 2016, No. 6P07563 dated 20 December 2016, No. 6P10022 dated 7 March 2017 and Research Institute of Marine Engineering Test Report No. 09-346 dated 11 December 2009.

**Tests carried out**

Tests as per SP Test Reports No. 6P02249 dated 17 August 2016, No. 6P07563 dated 20 December 2016, No. 6P10022 dated 7 March 2017 and Research Institute of Marine Engineering Test Report No. 09-346 dated 11 December 2009 issued according to IMO 2010 FTP Code and IMO Res. A.754 (18).

**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.

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**Field of application**

Fire resistant A-60 Class cable transits through A Class decks as per following table:

TYPE OF TRANSITS	Fill %	Cable diameter	ADDITIONAL INSULATION	TRANSIT FIXING AND NOTES
SRC r20 8x1	21	from 10 up to 86 mm	No additional insulation	Penetr. fix. to deck plate in the middle.
SRC r20 2x1	from 4 up to 18	from 10 up to 86 mm	No additional insulation	Penetr. fix. to deck plate in the middle.
SRC r60 4x1	1	10 mm	No additional insulation	Penetr. fix. to deck plate in the middle.
S 1x1	3	10 mm	No additional insulation	Penetr. fix. to deck plate in the middle.
SRC r40 8x1	31	from 31 up to 53 mm	Mineral wool, two layers 30 mm thick each, density of 125 kg/m <sup>3</sup> , width of 100 mm all around	Penetr. fix. to deck plate on exposed side; addit. insul. fitted on deck insul. side.
S 1x1	26	45 mm	Mineral wool, two layers 30 mm thick each, density of 125 kg/m <sup>3</sup> , width of 100 mm all around	Penetr. fix. to deck plate on exposed side; addit. insul. fitted on deck insul. side.
S 8+8x3	28	from 21 up to 53 mm	Min. wool, two layers 30 mm thick each, density of 125 kg/m <sup>3</sup> , width of 100 mm all around and on the modules with a screw exp.	Penetr. fixed to the deck plate on exposed side; the additional insul. is fitted on deck insulated side.
S 8x1	31	from 21 up to 53 mm	Mineral wool, two layers 30 mm thick each, density of 125 kg/m <sup>3</sup> , width of 100 mm all around	Penetr. fix. to deck plate on exposed side; addit. insul. fitted on deck insul. side.
SF 8x1	31	from 21 up to 53 mm	Mineral wool, two layers 30 mm thick each, density of 125 kg/m <sup>3</sup> , width of 100 mm all around	Penetr. fix. to deck plate on exposed side; addit. insul. fitted on deck insul. side.

Genoa December 19, 2018

File Allegato/Attached file