



**TYPE APPROVAL CERTIFICATE**  
**No. LAB484722CS/003**

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

<i>Description</i>	<b>Devices for the passage of electric cables through A or B Class divisions</b>
<i>Type</i>	<b>ROXTEC R-Series - SLFR X type</b>
<i>Applicant</i>	<b>ROXTEC INTERNATIONAL AB ROMBVAGEN 2, BOX 540 SE-37123 Karlskrona SWEDEN</b>
<i>Manufacturer</i>	<b>ROXTEC INTERNATIONAL AB</b>
<i>Place of manufacture</i>	<b>ROMBVAGEN 2 37165 LYCKEBY SWEDEN</b>
<i>Reference standards</i>	<b>IMO Res. MSC.307(88)-(2010 FTP Code) - Part. 3</b>

*Issued in Genoa on June 13, 2023. This Certificate is valid until June 12, 2028*

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

*Enrico Cabella*

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

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**ROXTEC R-Series - SLFR X type****Product description**

Devices for the passage of electric cables having maximum diameter of 83 mm through A Class bulkheads and decks. The devices are composed of rubber designated Roxylon inserted in a circular steel frame (SLFR X), 6 mm thick, and fitted inside with RM Modules. The transits are insulated as follows:

Decks - one layer of mineral wool (certified non-combustible according to the IMO FTP Code) having minimum thickness of 50 mm and minimum density of 100 kg/m<sup>3</sup> fitted on the lower side.

Bulkheads - two layers of mineral wool (certified non-combustible according to the IMO FTP Code) having, each, minimum thickness of 45 mm thick and minimum density of 90 kg/m<sup>3</sup> fitted on the non-fire hazard side.

On decks and bulkheads the mineral wool covers the transits and is applied all around the transits for a minimum width of 250 mm.

The transits may be fitted with additional insulation as described in the following table:

**BULKHEAD**

Transit type	Fill %	Cables - Maximum diameter (mm)	TRANSIT FIXING AND NOTES
R70	8.20	10	The penetration is fixed on the unexposed side; additional insulation composed of two layers of the same mineral wool, having width of 200 mm, is to be fitted around the cables
R200	13	67	The penetration is fixed on the unexposed side; additional insulation composed of two layers of the same mineral wool, having width of 200 mm, is to be fitted around the cables

**DECK**

Transit type	Fill %	Cables - Maximum diameter (mm)	TRANSIT FIXING AND NOTES
R75	3.6	10	The penetration may be fixed on the exposed and unexposed side; additional insulation composed of the deck insulation, having width of 150 mm, is to be fitted around the cables
R200	17.2	83	The penetration may be fixed on the exposed and unexposed side; additional insulation composed of the deck insulation, having width of 150 mm, is to be fitted around the cables

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**Field of application**

Fire resistant A-60 Class cable transits through A Class bulkheads; fire risk on the uninsulated side.  
Fire resistant A-60 Class cable transits through A Class decks.

**Reference documents**

Roxtec drawings enclosed in CTO Test Reports No. RS-18/B/-485/E dated 10 December 2018 and No. RS-19/B-255/E dated 20 August 2019 and SP Test Report No. 7P02167 dated 7 August 2017.

**Tests carried out**

Tests as per CTO Test Reports No. RS-18/B/-485/E dated 10 December 2018 and No. RS-19/B-255/E dated 20 August 2019 and SP Test Report No. 7P02167 dated 7 August 2017 issued according to 2010 FTP Code.

**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 13, 2023**

**File Allegato/Attached file**