



**TYPE APPROVAL CERTIFICATE**  
**No. LAB484722CS/001**

**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 - SLR 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 - SLR type****Product description**

Devices for the passage of electric cables having maximum diameter of 90 mm through A Class decks and bulkheads. The devices are composed of rubber designated Roxyton inserted in a circular steel frame (SLR), 6 mm thick, and fitted inside with RM Modules. The transits are fixed to the deck or bulkhead plate in the middle and are insulated as follows:

Decks - two layers of mineral wool (certified non-combustible according to the IMO FTP Code) having, each, minimum thickness of 45mm and minimum density of 90 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 45mm 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.

**DECKS**

Transit type	Minimum fill %	Maximum fill %	Cables - Maximum diameter (mm)
R50	1.4	25	25
From R50 up to R200	1.4	20.25	25
R200	0.1	20.25	90

The transit type R200 may be installed also without electric cables

**BULKHEADS**

Transit type	Minimum fill %	Maximum fill %	Cables - Maximum diameter (mm)
R50	1.4	20.34	23
From R50 up to R200	1.4	20.25	23
R200	0.1	20.25	90

The transit type R200 may be installed also without electric cables

**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.

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**Reference documents**

Roxtec drawings enclosed in DBI Test Report No. PGB10167A dated 18 March 2022 and No. PGB10172A dated 17 June 2022, CTO Test Reports No. RS-22/B/-153/E dated 4 May 2022, No. RS-22/B/-336/E and No. RS-22/B-338/E dated 28 October 2022.

**Tests carried out**

Tests as per DBI Test Report No. PGB10167A dated 18 March 2022 and No. PGB10172A dated 17 June 2022, CTO Test Reports No. RS-22/B/-153/E dated 4 May 2022, No. RS-22/B/-336/E and No. RS-22/B-338/E dated 28 October 2022 issued according to 2010 FTP Code.

Note: Transits R50 – R200 were subjected to hydrostatic test (water – 6 bar) for 60 minutes and gas-tightness test (helium – 3 bar) for 30 minutes without any leakage – test as per DNV-GL Survey report No. 141EX8Z Rev. 2 dated 10 August 2017

**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**