



TYPE APPROVAL CERTIFICATE

Certificate No. : CPH04189-FP002 **Initial Approval** : 25th February, 1992
Product : Cable Transit
Manufacturer : Roxtec International AB
Box 540, S-371 23 Karlskrona, Sweden

Product Description : Single and Multi Cable Transit System
- Type : R Series
- Intended for : A-60 Class steel bulkheads & steel Decks

See "Appendix 1"

Approval Condition : See "Appendix 1"

THIS IS TO CERTIFY that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows and entered in the "List of Approved Manufacturers and Type Approved Equipment".
Pt.8, Ch.1 of the Rules for Classification of Steel Ships and IMO 2010 FTP Code Annex 1, Part 3.

This Certificate is valid until 11th December, 2024
Issued at Busan, Korea on 12th December, 2019



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication of the certificate can be confirmed from "http://e-cert.krs.co.kr" by using the tracking No (ME19035752646) and certificate No.(CPH04189-FP002).



KOREAN REGISTER OF SHIPPING

General Manager of
Marine & Ocean Equipment Team

Note : 1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.
2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.
3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.
4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.

Appendix 1

Product Description and/or Approval Condition

Certificate No : CPH04189-FP002

Date of Issue : 12th December, 2019

A. Product Description

1. Product Specification

- 1) The cable transits consist of steel sleeve and specific sealing system and the sleeves are bolted to the bulkhead or the deck.
(But, Sleeve "SLR 70 ~ SLR 200 Ex/ATEX" are welded to the deck.)
- 2) The cable transits for bulkhead are fully insulated with A-60 Class mineral wool insulation (Density : 100 kg/m³) at unexposed side.

Size of Sleeve	Sealing Type	Sleeve Installation Side	Max. Dia. of Cable(mm)	Insulation arrangement	Approved Class
Reduction Sleeve	R 50 ~ R 100	Unexposed	10 ~ 50	Yes	A-60 Bulkhead
SLA 100	R 100	Unexposed	10 ~ 50	No	A-60 Deck
SLR 70 ~ SLR 200 Ex/ATEX	R 70 ~ R 200 Ex/ATEX	Symmetrical (welded to deck)	10 ~ 38	No	A-60 Deck
SLA 50 ~ SLA 100	R 50 ~ R 100	Exposed	10 ~ 50	Yes	A-60 Deck

▶ For more details see the approved drawings and/or relevant test reports.

2. Approved Drawings and Documents

- Drawings no. : S1041847(Rev.A), S1041851(Rev.B), S1511914(Rev.A), S1511927(Rev.A), S1511928(Rev.A), S1510055(Rev.B), S1510065(Rev.B), S1510066(Rev.B), etc.
(Total 20 sheets)

3. Test Reports, etc.

- 1) Test Report No. 4P06068 dated on 17 Jan. 2015 issued by SP Technical Research Institute of Sweden
- 2) Test Report No. 6P02249 dated on 17 Aug. 2016 issued by SP Technical Research Institute of Sweden
- 3) Test Report No. PGA10800A dated on 26 May 2016 issued by Danish Institute of Fire and Security Technology

B. Approval Condition

1. Application & Limitation

- 1) Installation on board is to be in accordance with the manufacturer's instructions and approved drawings.
- 2) Unless specifically stated in product specification of this certificate, the penetration does not allow to be used for watertight deck and bulkhead.
- 3) Approval Certificate for Manufacturer (Cert. no. : CPH04189-PA001) is to be retained validly apart from this Approval.

2. Individual Product Cert. and Drawing Approval Requirement

- Individual Product Certification is not required.

3. Marking

- The product or packing is to be marked with manufacturer name and type designation on a suitable position.

4. Others

- N/A

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