



Marine & Offshore

Certificate number: 41353/B0 BV

File number: ACI4000/032/010

Product code: 5302H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

ROXTEC International AB

KARLSKRONA - SWEDEN

for the type of product

CABLE PENETRATIONS IN FIRE DIVISIONS

A-Class Aluminium Divisions "Cable sealing system with multidiameter technology, Roxtec S-Series"

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships Part C Chapter 4

SOLAS 74, as amended, Regulations II-2/9.3.1

IMO Resolution MSC.307(88) (2010 FTP Code)

IMO Resolution MSC.61(67)-(FTP Code) with IMO Resolution MSC.307(88) (2010 FTP Code) article 8

IMO MSC/Circ.1120

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 12 Apr 2026

For Bureau Veritas Marine & Offshore,

At BV GOTHENBURG, on 12 Apr 2021,

Torbjorn Ygesjo



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

A-Class Aluminium Divisions "Cable sealing system with multidiameter technology, S-series"

Consisting of Roxtec S-series frames (S, SO, SF, SFO, SR, SK, SRC r20&r40 and BTB) in sizes 1-8 and combinations thereof, welded or bolted on to the steel divisions; filled with Roxtec (Standard, Ex, EMC, PE, ES, BG, BGB) halogen free insert modules. Assembled with Roxtec Wedge kit (Standard, Ex or EMC). Frames are welded or bolted symmetrically in aluminium division.

Penetration designation	S-series frames 1x1 to 8+8x10
Type of division tested	Aluminium Deck and Bulkhead
Depth of the penetration (mm)	60
External dimensions (mm)	141x121 to 596x402
Classification	A-0 Class to A-60 Class

Maximum cable diameter: 88 mm

Tested fill based on transit opening area and the Roxtec Cable Sealing System. Maximum fill of a Roxtec transit is to install cable in every module installed in transit opening and minimum is to not install cable in any module in transit opening. The thickness of A-Class aluminium division insulation is to be at least the length of protruding frame.

2. DOCUMENTS AND DRAWINGS:

As per Manufacturer's drawing N° S1502938 rev.B dated 13/10/2020.

3. TEST REPORTS:

Test reports as per ⁽¹⁾IMO FTP Code Annex 1 Part 3 [test standard: IMO Resolution A.754(18)] or ⁽²⁾IMO 2010 FTP Code Annex 1 Part 3:

Laboratory	Test report	Date	Cable transits	Division	Fire rating
SP, Sweden	N° P603001 ⁽¹⁾	23/07/2007	S 8+8x3 (combination)	Aluminium bulkhead	A-60
CTO, Poland	N° RS-18/B-180/E	25/06/2018	S 2x1 (single) and S 8x1 (single)		
CTO, Poland	N° RS-19/B-020/E	27/05/2019	S 8x4 (combination)		
CTO, Poland	N° RS-18/B-179/E	25/06/2018	S 2x1 (single) and S 8x1 (single)	Aluminium deck	A-60
CTO, Poland	N° RS-19/B-224/E	01/08/2019	S 8+8x3 (combination)		

4. APPLICATION / LIMITATION:

4.1 - Approved for use as cable transits in A-15, A-30, A-60 class steel divisions, with fire insulation as described in §1. For A-0 class divisions, local insulation arrangement shall be installed (on the penetration itself and 200 mm around).

4.2 - Any other arrangement of cable transit is subject to a case-by-case approval.

4.3 - Filling ratio not to exceed the one tested (see § 1).

4.4 - The fitting aboard to be the same as used for the test.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The **A-Class Aluminium Divisions "Cable sealing system with multidiameter technology, S-series"** are to be supplied by **ROXTEC International AB** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **ROXTEC International AB** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

6. MARKING OF PRODUCT:

The product or packing is to be marked with manufacturer name, type, designation and fire-technical rating.

7. OTHERS:

7.1 - It is **ROXTEC International AB**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This Certificate supersedes the Type Approval Certificate N° 41353/A0 BV issued on 02/11/2015 by the Society.

7.3 - Testing of the penetrations for gastightness and watertightness as per following inspection reports, witnessed by Third Party surveyor:

- report N° 020400 dated 25/03/2002, from DNV, Norway.
- report N° SKM-04-4088 dated 16/06/2004 from DNV, Norway.

Watertightness test (before fire exposure)	Gastightness test (before fire exposure)
6 bar during 60 min	4 bar during 30 min

*** END OF CERTIFICATE ***