



**BUREAU  
VERITAS**

*Marine & Offshore  
Division*

**Certificate number:** 41353/A0 BV

**File number:** ACI 4000/32/010

**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**

Cable sealing system with multidiameter technology, S- Series aluminium

**Requirements:**

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

SOLAS 74, as amended, Regulation II-2/9

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

*This certificate is issued to attest that BUREAU VERITAS 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: 02 Nov 2020**

**For BUREAU VERITAS,**

At BV GOTHENBURG, on 02 Nov 2015,

Magne MOLLER



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. 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 Division 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 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.

The electronic version is available at: <http://www.veristarp.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=5jprbo2rx>

BV Mod. Ad.E 530 October 2014

This certificate consists of 3 page(s)



QUALITY



HEALTH



SAFETY



ENVIRONMENT



SOCIAL  
ACCOUNTABILITY

## 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 or EMC, PE, ES, BG, BGB) halogen free insert modules. Assembled with Roxtec Wedge kit or Roxtec EMC Wedge kit.

<b>Penetration designation</b>	<b>S-series frames 1x1 to 8+8x3</b>
	Welded and Bolted
<b>Type of division tested</b>	Deck and Bulkhead
<b>Depth of penetration (mm)</b>	60
<b>External dimensions (mm)</b>	121x80 to 596x402
<b>Classification attained</b>	A-0 to A-60

Maximum cable diameter 98 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. Insulation is to be provided as shown in the referred Manufacturer's drawings. The insulation thickness is to be at least the length of protruding frame.

### 2. DOCUMENTS AND DRAWINGS :

As per Manufacturer's drawing n° S1502938 Rev A dated 2015-04-10.

### 3. TEST REPORTS :

3.1 - Test report N° 22N007.23A, dated 30.10.2000 as per IMO A.754 (18) Resolution from SINTEF, Norway

3.2 - Test report N° 22N007.23B, dated 30.10.2000 as per IMO A.754 (18) Resolution from SINTEF, Norway

3.3 - Test report N° 103070.33B, dated 07.10.2004 as per IMO A.754 (18) Resolution from SINTEF, Norway

3.4 - Test report N° P603001, dated 26.10.2006, as per IMO A.754 (18) Resolution from SP, Sweden

### 4. APPLICATION / LIMITATION :

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

4.2 - Approved for use as cable transits in A-0, A-15, A-30 and A-60 class aluminium divisions, with limitations contained in §1.

4.3 - Where intended to be fitted into hull structural parts, welding procedures, welder's certification and material certification are to be submitted to Bureau Veritas.

4.4 - The insulating material(s) shall have to comply with the requirements of BV Rules and be type approved.

### 5. PRODUCTION SURVEY REQUIREMENTS :

The "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.

This type of product is within the category HBV of Bureau Veritas Rule Note NR320.

"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 :

**ROXTEC International AB**  
**BOX 540**  
**371 23 KARLSKRONA**

### 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 the manufacturer'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 - Tested for water tightness (before fire exposure): 6 bar during 60 min. Tested gas tightness (before fire exposure): 4 bar during 30 min.

- Third Party Inspection report N° 020400 dated 25.03.2002, from DNV, Norway

- Third Party Inspection report N° SKM-04-4088 dated 16.06.2004 from DNV, Norway

**\*\*\* END OF CERTIFICATE \*\*\***