



Marine & Offshore

Certificate number: 52630/B0 BV

File number: ACI 4010/030/006

Product code: 5301H

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

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to

ROXTEC International AB
KARLSKRONA - SWEDEN

for the type of product

PIPE PENETRATIONS IN FIRE DIVISIONS

Roxtec sealing system: Roxtec SPM seal series in Aluminium divisions

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 Res MSC.307(88) (2010 FTP Code)

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: 19 Oct 2028

For Bureau Veritas Marine & Offshore,
At BV COPENHAGEN, on 19 Oct 2023,
Hans-erik ERICSSON

This certificate was created electronically and is valid without signature



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.

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

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

"Roxtec sealing system, Roxtec SPM seal series (Aluminium divisions)"

Consisting of Roxtec SPM rubber seal, attached through expansion to aluminium divisions.

Additional insulation on penetrations:

- should be approved as having the same level of performance as the penetrated division and expected classification of penetration,

- is to be fitted as shown in the referred Manufacturer's drawings and also according to Manufacturer's insulation guidelines.

1.1 - A-60 bulkhead

Seal	Size	Pipe material	Pipe service diameter (mm)	Sleeve position	Insulation drawing
SPM	39-279	Steel / Titanium	8-222	Any	S1592852 Rev. A dated 15/06/2023 ID 1-4
SPM	39-157	Copper / Cu/Ni	8-110	Any	S1592853 Rev. A dated 15/06/2023 ID 1-3

1.2 - A-60 deck

Seal	Size	Pipe material	Pipe service diameter (mm)	Sleeve position	Insulation drawing
SPM	39-279	Steel / Titanium	8-222	Any	S1592854 Rev. A dated 16/06/2023 ID1-4
SPM	39-157	Copper / Cu/Ni	8-110	Any	S1592855 Rev. A dated 15/06/2023 ID 1-2

2. DOCUMENTS AND DRAWINGS :

As per the Manufacturer's insulation drawings quoted in tables in §1.

3. TEST REPORTS :

3.1- A-60 bulkhead

Test report N°	Dated	Laboratory
RS-17/B-209/E	June 2, 2017	CTO, Poland
RS-18/B-180/E	June 25, 2018	CTO, Poland
PGA11370A	February 20, 2019	DBI, Denmark

3.2- A-60 deck

Test report N°	Dated	Laboratory
RS-17/B-210/E	June 2, 2017	CTO, Poland
RS-18/B-179/E	June 25, 2018	CTO, Poland
PGA11371A	February 20, 2019	DBI, Denmark

All test reports being as per IMO FTP Code 2010, Annex 1, Part 3.

4. APPLICATION / LIMITATION :

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

4.2 - Approved for use as steel or copper pipe penetrations:

- in A-15, A-30, A-60 class aluminium divisions, with fire insulation as described in §1,
- in A-0 class aluminium divisions, with local fire insulation arrangement (on the penetration itself as described in §1 and 200 mm around).

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The **SPM seals** 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 office and production site(s) 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°52630/A0 BV issued on 24/09/2018 by the Society.

7.3 - Watertightness and Gastightness for SPM seals: Inspection report N° N1419WS4, dated June 21, 2016 and N° N141805A, dated December 20, 2016, both from DNV-GL:

- Tested watertightness : 1,5 bar during 60 min.
- Tested gastightness : 1 bar during 30 min.

*** END OF CERTIFICATE ***