



## Confirmation of Product Type Approval

**Company Name:** ROXTEC INTERNATIONAL AB

**Address:** ROMBVAGEN 2 LYCKEBY SE 371 65 Sweden

**Product:** Penetration Device for Pipe Deck and Bulkhead Penetration Sealing

**Model(s):** Roxtec SPM seal series in Aluminium divisions.

**Endorsements:**

<b>Certificate Type</b>	<b>Certificate Number</b>	<b>Issue Date</b>	<b>Expiry Date</b>
Product Design Assessment (PDA)	23-2372497-PDA	19-JUN-2023	18-JUN-2028
Manufacturing Assessment (MA)	24-6227546	25-JAN-2024	08-JAN-2029
Product Quality Assurance (PQA)	NA	NA	NA

**Tier**

3 - Type Approved, unit certification not required

**Intended Service**

Single pipe penetration in Class A-0, A15, A30 and A60 bulkheads and decks for Marine and Offshore Applications. Penetration of watertight and gas-tight aluminium bulkheads and decks up to rated pressure.

**Description**

Roxtec sealing system: SPM-Seal (Alu divisions) the SPM seal consist of a highly elastic EPDM rubber frame and fittings of stainless steel. The SPM seal is installed by expansion onto the aluminium division.

**Ratings**

Fire Resistance - A0, A15, A30 and A60 Bulkheads and Decks

Water tightness test pressure: 1.5 bar g.

Gas tightness test pressure : 1.0 bar g.

**Service Restrictions**

a) Maximum and Minimum tested Steel Pipes: 222 mm & 8 mm outside diameter.

b) Maximum and Minimum tested Copper Pipes: 110 mm & 8 mm outside diameter.

c) Maximum and Minimum Size of Transit Frame - SPM 279 ( Aperture Diameter 283 mm) & SPM 39 ( Aperture Diameter 39 mm)

d) Not for use in tank boundaries and collision bulkhead.

e) Transits are to be insulated as per the approved ABS drawings for all fire division ratings.

f) For fire class A-0, A-15 and A-30, seals are to be insulated as for class A-60 and in addition the division is to be insulated at least 200 mm around the penetration.

g) Unit Certification is not required for this product. If the manufacturer or purchaser's request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

### Comments

a) All seal type should be installed in accordance with the manufacturers instructions and ABS approved installation drawings.

b) Insulation material is to be A60 approved type and properly installed in accordance with ABS approved drawings to the satisfaction of the Surveyors.

c) Watertight bulkheads or decks are to be tested as per ABS Marine Vessels Rules 3-7-1/Table 1.

d) When requested to be used in watertight bulkheads on passenger ships or special purpose ships, the penetration system has to comply with the requirements give in SOLAS Ch. 11-1 Reg. 13.2.3 (2020 Consolidated Edition or latest issue). This approval of penetrations passing through watertight bulkhead is not to be construed as a substitute for flag Administration's approval for the purpose of SOLAS 74/78 (2020 Consolidated Edition).

e)The product or packing is to be marked with name of manufacturer, type designation and fire rating.

f) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

### Notes, Drawings and Documentation

#### Test Reports:

RS-17B-209E, IMO Fire Test of Pipe Penetration Seals in A60 Aluminium Bulkhead , dated 02 June 2017.

RS-17B-210E, IMO Fire Test of Pipe Penetration Seals in A60 Aluminium Deck, dated 02 June 2017

PGA11370A, IMO Fire Test of Pipe Penetration Seals in A60 Aluminium Bulkhead, dated 20 Febr 2019.

PGA11371A, IMO Fire Test of Pipe Penetration Seals in A60 Aluminium Deck, dated 20 Febr 2019.

RS-18-B-179-E, IMO Fire Test of Pipe Penetration Seals in A60 Aluminium Deck, dated 25 June 2018.

RS-18-B-180-E, IMO Fire Test of Pipe Penetration Seals in A60 Aluminium Bulkhead, dated 25 June 2018.

N1419WS4, Pressure test report, DNV Survey Report, dated 20 December 2016.

#### Drawings:

Roxtec SPM Installation instruction, Revision: 1, Pages: 1

S1502970, SPM 39-279 Assembly, Revision: D

S1589045, Roxtec SPM Seal With Pipes A-60 Class Aluminium Bulkhead, Revision: A, Pages: 1

S1589046, Roxtec SPM Seal With Pipes A-60 Class Aluminium Deck, Revision: A, Pages: 1

### Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 18/Jun/2028 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

**ABS Rules**

The ABS Rules for Conditions of Classification, 2023 Marine Vessels 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2023 Rules for Building and Classing Marine Vessels: 4-6-2/9.7

The Rules for Conditions of Classification, Offshore Units and Structures, 2023 Mobile Offshore Units 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2023 Rules for Building and Classing Mobile Offshore Units: 4-2-1/11.15

**International Standards**

Regulation II-2/ 9.3.1 of SOLAS Consolidated Edition 2020

IMO Resolution MSC.307(88) - (2010 FTP Code), Annex I: Part 3, adopted on 3 December 2010

**EU-MED Standards**

NA

**National Standards**

NA

**Government Standards**

This PDA conforms to Transport Canada Requirements

**Other Standards**

NA



Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 12-Feb-2024 9:21

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.