



## *Confirmation of Product Type Approval*

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product. This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

Pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 13-JUN-2022. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

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.

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.

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

**Model Name(s): Roxtec SPM Seal Series – SPM 39- 279**

**Presented to:**

ROXTEC INTERNATIONAL AB  
BOX 540  
S-371 23  
Sweden

**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 steel bulkheads and decks up to rated pressure.

**Description:**

Roxtec Sealing System, Roxtec SPM seal series consisting of halogen free rubber seal in sizes 39-279 attach through expansion to steel sections.

**Tier:**

3

**Ratings:**

Fire Resistance - bulkheads and decks 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) Outside diameter 8 to 220mm for steel pipes for bulkheads and decks. b) Outside diameter 8 to 220mm for copper pipes for bulkheads. c) Outside diameter 8 to 222mm for copper pipes for decks. d) Not for use in tank boundaries. e) Transits are to be insulated as per the approved ABS drawing for all fire division ratings. f) 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 in accordance with 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 Steel Vessel 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 (2014 Consolidated Edition or latest issue). e) 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 2014 Consolidated Edition. f) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

**Notes / Documentation:**

a) Test Report No. 5P03451, SP Technical Research Institute of Sweden, IMO Test of Pipe Penetration Seals in A60 Steel Bulkhead, dated 3 November 2015 b) Test Report No. 5P03457, SP Technical Research Institute of Sweden, IMO Test of Cable Penetration Seals in A60 Steel Deck, dated 12 November 2015 c) Test Report No. 5P08346, SP Technical Research Institute of Sweden, IMO Test of Pipe Penetration Seals in A60 Steel Bulkhead , dated 21 December 2015 d) Test Report No. 5P08343, SP Technical Research Institute of Sweden, IMO Test of Pipe Penetration Seals in A60 Steel Deck, dated 21 December 2015 e) Test Report No. 5P08395, SP Technical Research Institute of Sweden, IMO Test of Pipe Penetration Seals in A60 Steel Deck, dated 17 March 2016 f) Test Report No.6P05989, SP Technical Research Institute of Sweden, IMO Test of Pipe Penetration Seals in A60 Steel Deck, dated 24 October 2016 g) Test Report No.6P05990, SP Technical Research Institute of Sweden, IMO Test of Pipe Penetration Seals in A60 Steel Bulkhead, dated 24 October 2016 h) Test Report No. PGA10870A , DBI, Danish Institute of Fire and Security Technology, IMO Test of Pipe Penetration Seals in A60 Steel Bulkhead, dated 13 December 2016 i) Drawing No. S1522607, Roxtec SPM Seal With Steel Pipe A-Class Steel Bulkhead, Revision: A, Dated 8 May 2017 j) Drawing No. S1522614, Roxtec SPM Seal With Copper Pipe A-Class Steel Bulkhead, Revision: A, Dated 8 May 2017 k) Drawing No. S1522615, Roxtec SPM Seal With Steel Pipe A-Class Steel Deck, Revision: A, Dated 8 May 2017 l) Drawing No. S1522616, Roxtec SPM Seal With Copper Pipe A-Class Steel Deck, Revision: A, Dated 8 May 2017 m) Drawing No. S1522617, Roxtec SPM Seal With Steel Pipe A-0 Class Steel Bulkhead, Revision: A, Dated 8 May 2017 n) Drawing No. S1522618, Roxtec SPM Seal With Copper Pipe A-0 Class Steel Bulkhead, Revision: A, dated 08 May 2017 o) Drawing No. S1522619, Roxtec SPM Seal With Steel Pipe A-0 Class Steel Deck, Revision: A, Dated 08 May 2017 p) Drawing No. S1522620, Roxtec SPM Seal With Copper Pipe A-0 Class Steel Deck, Revision: A, Dated 08 May 2017 q) Drawing No. S1502970 , ESPM 39-279 Assembly, Revision: D, r) Document DOC-0000116, Installation Instructions Roxtec SPM Seal, Version A s) Pressure Test Report No. N1417RRN, DNV Survey Report, dated 29 January 2016 t) Pressure Test Report No. N141805A, DNV Survey Report, dated 20 December 2016 u) Certificate Number. MEDB00000NV, DNV GL Issued Updated MED Certificate, Revision: 2 u) Roxtec SPM seal Product presentation, Revision: A,

**Term of Validity:**

This Product Design Assessment (PDA) Certificate 17-LD1633274-PDA, dated 14/Jun/2017 remains valid until 13/Jun/2022 or until the Rules or specifications used in the assessment are revised (whichever occurs first). This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product. Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA. Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

**ABS Rules:**

The Rules applicable to this assessment are: 2017 Rules for Building and Classing Steel Vessels 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-6-2/9.7; 2017 Rules for Building and Classing Facilities on offshore installations 1-1-A2, 1-1-A3, 1-1-4/9.7, 3-8/9.13, 4-8/9.13; 2017 Mobile Offshore Drilling Units Rules 1-1-A2, 1-1-A3, 1-1-4/9.7, 4-2-1/11.15

**National Standards:  
International Standards:**

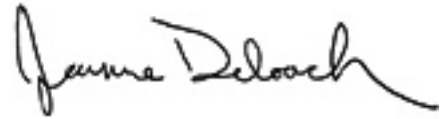
Regulation II-2/ 9.3.1 of SOLAS (2014 Consolidated Edition); IMO Resolution MSC.307(88) - (2010 FTP Code), Annex I: Part 3, adopted on 3 December 2010

**Government Authority:** This PDA conforms to Transport of Canada requirements

**EUMED:**

**Others:**

<b>Model Certificate</b>	<b>Model Certificate No</b>	<b>Issue Date</b>	<b>Expiry Date</b>
PDA	17-LD1633274-PDA	14-JUN-2017	13-JUN-2022



ABS Programs

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 was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. 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.