

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00000NX

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2014/93/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the Penetrations through "A" class divisions: pipe, duct, trunk, etc penetrations
with type designation(s)

Roxtec sealing system with Multidiameter, RS PPS and RS PPS/S (AL)

Issued to

Roxtec International AB

KARLSKRONA, Sweden

is found to comply with the requirements in the following Regulations/Standards:

Annex A.1, item No. A.1/3.26b and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2/9, IMO MSC/Circ.1276 and IMO 2010 FTP Code

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2021-03-14**.

Issued at **Høvik** on **2016-03-15**

DNV GL local station:

Gothenburg

Approval Engineer:

Piotr Orzechowski

Notified Body

No.: **0575**

for **DNV GL AS**

Vidar Dolonen

Head of Notified Body

Product description

"Roxtec sealing system with Multidiameter™, RS PPS and RS PPS/S (Al)"

RS PPS 31-200

consisting of an aluminium sleeve, bolted or welded to an aluminium section. The sleeve is fitted at both ends with Roxtec RS seals (standard or EMC versions) including intumescent material in between.

RS PPS/S 31-150

consisting of an aluminium sleeve, bolted or welded (including SLX-type sleeve) to an aluminium section. The sleeve is fitted in with Roxtec RS PPS/S seal (standard or EMC versions) with integrated intumescent material.

Application/Limitation

Approved for use as single plastic pipe penetration system in class A-0, A-15, A-30 and A-60 aluminium bulkhead and deck for approved thermoplastic pipes as follows:

PPS system size:	Pipe outer diam.:	Type of pipe:	Deck/Bulkhead:
RS PPS 31-200	16 -160 mm	Thermoplastic *	Deck/Bulkhead
RS PPS 31 -150	16 – 110 mm	PE/Alu Flexi pipe	Deck/Bulkhead
RS PPS 31 - 125	16- 98 mm including Armaflex insulation	Multiple pipes	Deck/Bulkhead
RS PPS/S 31-150	16 – 110 mm	Thermoplastic *	Deck/Bulkhead

* PP, PVC, PB, ABS, HDPE, PVDF

Deck or bulkhead to be insulated with approved insulation according to classification covering the edge of the aluminium frame. See insulation drawing specified in the Type Approval Documentation. For fire class A-0, A-15 and A-30, the sleeve and pipes are to be insulated as for class A-60.

The penetration system shall not be used for penetrating boundaries of tanks.

Watertightness and gastightness is not covered in this certificate.

The insulation material used has to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

Each product shall be supplied with its manual for installation and maintenance.

Type Examination documentation

Test Reports No. 103070.03A (A-60 deck) and No. 103070.03B (A-60 bulkhead) dated 15 March 2001 from SINTEF, Norway.

Test Reports No. PG11898 Serial No. 11923 and PG11955 Serial No. 11979 both dated 17 April 2009 from DIFT, Denmark.

Assessment No. 103201.89 (A-60 bulkhead/deck) dated 4 August 2004 from SINTEF, Norway.

Drawing Nos. from Roxtec International AB:

- S1017153 dated 30 April 2009 (Insulation).

- S1001239 Rev. A dated 27 June 2000 (insulation).

Tests carried out

Tested according to IMO FTPC Part 3 and in compliance with IMO 2010 FTP Code Ch. 8.

Marking of product

The product or packing is to be marked with name of manufacturer, type designation, fire-technical rating, MED Mark of Conformity and USCG approval number if applicable.