

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government 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 Technology, Group Penetration - Bulkhead

Issued to

Roxtec International AB
KARLSKRONA, Sweden

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

Regulation **(EU) 2017/306,**

item No. MED/3.26b. SOLAS 74 as amended, Regulation II-2/9, IMO MSC.1/Circ.1276 and IMO 2010 FTP Code

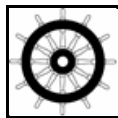
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-11-29.**

Issued at **Høvik** on **2017-11-30**

DNV GL local station:
Malmö

Approval Engineer:
Marius Mørner



Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005.

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



Job Id: **344.1-000153-73**
Certificate No: **MEDB0000369**

Product description

"Roxtec Sealing System with Multidiameter Technology, Group Penetration"
consisting of Roxtec S-series steel frame, bolted or welded to a steel section, with an extended depth (-K) supported with a flange, (-F), in total generating a SKF- frame in sizes up to a modular RM packing space of maximum 280 mm height, with integrated intumescent material.

The frame is filled with Roxtec (standard or EMC) halogen free RM modules. Assembled with Roxtec Wedge kit or Roxtec EMC Wedge kit.

Application/Limitation

Approved for use as a single or multiple pipe and cable penetration system in class A-60 classed steel bulkheads, with a mix of plastic pipes (polyethylene) up to OD=90 mm in combination with copper pipes and/or steel pipes up to OD=76 mm and cables up to OD=28 mm.

Class A-0, A-15 and A-30 shall be insulated as for A-60 and the division is to be fitted with A-60 insulation for a minimum distance of 200 mm around the penetration. For detail information about insulation please see drawings specified in the Type Examination Documentation.

The penetration system is generally not to be used for penetrating boundaries of tanks.

Watertightness and gastightness is not covered in this certificate.

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

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

Type Examination documentation

Test report No. P602999 dated 23 January 2007 from SP, Sweden.

Drawing no. S1009653 Rev. A, dated 30 August 2006 from Roxtec International AB.

Drawing no. S1011662 Rev. 0 dated 18 June 2007 from Roxtec International AB.

Tests carried out

Tested according to IMO FTPC Part 3 (IMO Res. A.754(18)) and in compliance with IMO 2010 FTP Code Ch. 8.

Marking of product

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