



Certificate No:
TAF00001G9

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class A and B Penetration

with type designation(s)
Roxtec GF Drain Firestop sleeve

Issued to

Roxtec International AB
Karlskrona, Sweden

is found to comply with

DNV GL class programme DNVGL-CP-0165 – Type approval – Cable and pipe penetrations
DNV GL rules for classification – Ships
DNV GL offshore standards

Application :

Approved for use as a drain penetrations system in class A-0 and A-60 deck.

This certificate is recognized by Transport Canada.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Høvik** on **2021-05-10**

This Certificate is valid until **2026-05-09**.

DNV local station: **Sweden CMC**

for **DNV**

Approval Engineer: **Helge Bjørnarå**

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Mårten Schei-Nilsson
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: TA 251

Revision: 2021-03

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Product description

"Roxtec GF Drain Firestop sleeve",
is consisting of a steel drain cover and a stainless steel casing/sleeve (1.5 mm) with intumescent material, attached to a (+GF) steel deck collar ring (3 mm), all encasing a (+GF) thermoplastic drain and pipe.

The deck collar ring is welded flush to the deck.

For further details, see drawings listed under Type Approval documentation.

Application/Limitation

Approved for use as a drain penetrations system in class A-0 and A-60 deck. Other applications are subject to case-by-case approval.

Table 1: Approved drain penetration in A-0 steel deck

Type	Size	Pipe material	Pipe diameter (OD) [mm]	Drain sleeve assembly length [mm]	Drain thickness [mm]	Drain position	Drain insulation
GF	50 - 75	Thermoplastic*	50 – 75	191 – 194	1.5 - 3	Underside	S1553574 Rev. A

* PP, PVC, PB, ABS, PE, PVDF

Table 2: Approved drain penetration in A-60 steel deck

Type	Size	Pipe material	Pipe diameter (OD) [mm]	Drain sleeve assembly length [mm]	Drain thickness [mm]	Drain position	Drain insulation
GF	50	Thermoplastic*	50	194	1.5 - 3	Underside	S1562453 Rev. A

* PP, PVC, PB, ABS, PE, PVDF

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

Type Approval documentation

Certification in accordance with Class Programme DNVGL-CP-0338, September 2018.

Test report No. PGA11610A Rev. 0 dated 10 January 2020 from DBI, Hvidovre, Denmark.

Test report No. PGB10032A Rev. 0 dated 1 July 2020 from DBI, Hvidovre, Denmark.

Drain sleeve assembly:

Drawing No. S1538955 Rev. G dated 28 October 2020 from maker.

Drawing No. S1548120 Rev. D dated 28 October 2020 from maker.

Insulation drawings:

Drawing No. S1553574 Rev. A dated 13 March 2020 from maker.

Drawing No. S1562453 Rev. A dated 29 December 2020 from maker.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation and fire-technical rating.

Transport Canada Approval

Based on the procedures laid down in the Transport Canada Publication entitled "Approval Procedures for, Life Saving Equipment and Structural Fire Protection Products (TP 14612)", DNV confirms that the product/s listed in this certificate is/are in accordance with Transport Canada's requirements.

Periodical assessment

DNV's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Class Program DNVGL-CP-0338, Section 4.