TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MERB0001N9S
Revision no.:
0

This Certificate is issued by DNV UK Limited, UKAS accredited certification body no. 6086, based on authorisation of the Maritime & Coast Guard Agency (MCA) as an UK Approved Body (no. 0097) to undertake conformity assessments on marine equipment in accordance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2025.

This is to certify:

that the **Penetrations through 'A' class divisions: - electric cable transits**

with type designation(s)
GK Firestop Sealing Kit

issued to
Roxtec International AB
Karlskrona, **Sweden**

is found to comply with the Regulation **(UK) MSN 1874 Amendment 11** for
Item no. **UK/3.26a** (Row **1 of 1**)
according to the following requirements:
SOLAS 74 Reg. II-2/9, IMO MSC.1/Circ.1655

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

Date of issue: **2026-02-24**

Expiry date: **2031-02-23**

DNV local unit:
Sweden CMC

Approval Engineer:
Marcin Tobiasz

Approved Body No:: 0097

for **DNV UK Ltd.**

Christine Mydlak-Röder
MER Service Responsible

Maritime & Coastguard Agency
UK Approved Body Authorised by the MCA

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.
During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved Body.
"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-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2025, as amended is fully complied with and controlled by a written inspection agreement with an approved body. In case limitations of use apply, these should be indicated in the Annex.

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 USD 300 000.

Product description

“GK fire stop sealing kit”
consisting of a fiberglass cloth with built in heat activated intumescent material to be wrapped around cable bundles and fitted into circular or oval steel pipe sleeves. Folded back on each side with ends sealed off to create a cold smoke tight seal and secured by metal cable ties.
GK fire stop sealing kit is intended to be used for bundled cables or as a blank fire stop solution. The installation shall be welded or bolted to deck or bulkhead.

Application/Limitation

Approved for use as a single or multicable penetration system in class A-0 and A-60 steel bulkheads and decks for approved ship cables as specified in appendix. Other applications are subject to case-by-case approval.

Class A-15 and A-30 shall be insulated as A-60 and in addition the division is to be insulated at least 200 mm around the penetration.

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

The bolted sleeves shall be installed with screws + spring washer.

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

Please see Appendix: Application/Limitation

Type Examination documentation

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, fire-technical rating, and the Mark of Conformity (see first page).

APPENDIX

Application/Limitation

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Table 1: Approved cable penetration in A-60 steel deck

Type	Size	Max. cable diameter [mm]	Filling ratio [%]	Sleeve length [mm]	Min. sleeve thickness [mm]	Sleeve position	Penetration insulation
GK FS SK	Ø89 – Ø273	47	0 – 68	105 – 205	3	Symmetric	Partially[1)] insulated (S1606524, No. 4)
GK FS SK	200x150 – 250x170 or 2x(250x170)	47	0 – 68	105 – 205	3	Symmetric	Partially[1)] insulated (S1606524, No. 4)
GK FS SK	350x170 – 550x170	90	0 – 68	105 – 205	3	Symmetric	Partially[1),2)] insulated (S1606524, No. 5)

1) Empty penetration to be fully insulated according to drawing S1606524
2) Insulation covers cloth up to the end

Table 2: Approved cable penetration in A-60 steel bulkhead

Type	Size	Max. cable Diameter [mm]	Filling ratio [%]	Sleeve length [mm]	Min. sleeve thickness [mm]	Sleeve position	Penetration insulation
GK FS SK	Ø89 – Ø273	47	0 – 68	105 – 205	3	Symmetric	Partially[1)] insulated (S1606524, No. 1)
GK FS SK	200x150 – 250x170 or 2x(250x170)	47	0 – 68	105 – 205	3	Symmetric	Partially[1)] insulated (S1606524, No. 1)
GK FS SK	350x170 – 550x170	90	0 – 68	105 – 205	3	Symmetric	Partially[1),2)] insulated (S1606524, No. 2)

1) Empty penetration to be fully insulated according to drawing S1606524
2) Insulation covers cloth up to the end

Table 3: Approved cable penetration in A-0 steel deck

Type	Size	Max. cable Diameter [mm]	Filling ratio [%]	Sleeve length [mm]	Min. sleeve thickness [mm]	Sleeve position	Penetration insulation
GK FS SK	Ø89 – Ø273	47	0 – 68	105 – 205	3	Symmetric	None (S1606546, No. 4)
GK FS SK	200x150 – 250x170 or 2x(250x170)	47	0 – 68	105 – 205	3	Symmetric	None (S1606546, No. 4)
GK FS SK	350x170 – 550x170	90	0 – 68	105 – 205	3	Symmetric	None (S1606546, No. 5)

Table 4: Approved cable penetration in A-0 steel bulkhead

Type	Size	Max. cable Diameter [mm]	Filling ratio [%]	Sleeve length [mm]	Min. sleeve thickness [mm]	Sleeve position	Penetration insulation
GK FS SK	Ø89 – Ø273	47	0 – 68	105 – 205	3	Symmetric	None (S1606546, No. 1)
GK FS SK	200x150 – 250x170 or 2x(250x170)	47	0 – 68	105 – 205	3	Symmetric	None (S1606546, No. 1)
GK FS SK	350x170 – 550x170	90	0 – 68	105 – 205	3	Symmetric	None (S1606546, No. 2)