Certificate no.:
TAF00001YS

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Class A and B Penetration

with type designation(s)
A-0 Cable Penetration Bulkhead & Deck Type

issued to
Remitite Co., Ltd.
Gimhae-si, Gyeongsangnam-do, Republic of Korea

is found to comply with

DNV statutory interpretations DNV-SI-0364 – SOLAS interpretations, Edition July 2021
DNV rules for classification – Ships
DNV offshore standards

Application:

Approved for use as a cable penetration system in class A-0 steel bulkheads/decks.

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 **2025-01-07**
This Certificate is valid until **2030-01-06**.
DNV local unit: **Gimhae Station**

for **DNV**

Approval Engineer: **Marta Kropiwnicka**

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 USD 300 000.

Product description

"A-0 Cable Penetration Bulkhead & Deck Type"
is a cable penetration system composed of a 100 mm deep steel coaming installed symmetrically and welded to the bulkhead or deck, filled with REMITITE REX-25 Sleevearound the cables and filling the remaining space between coaming and cables, closed in each end of the transit with a 20 mm deep REX-205 Sealant.

For further details, see drawing(s) listed under Type Approval documentation.

Application/Limitation

Approved for use as a cable penetration system in class A-0 bulkheads and decks for approved ship cables. Other applications are subject to case-by-case approval.

Table 1: Approved cable penetration in A-0 steel bulkhead:

Type	Coaming size [mm]	Max. cable diameter (OD) [mm]	Filling Rate [%]	Min. coaming length [mm]	Min. coaming thickness [mm]	Coaming position	Coaming insulation
Rectangular	680 x 370	71.1	0 – 30	100	5	Symmetrical	None
Round	50A	11	5 - 14	100	3.65	Symmetrical	None

Table 2: Approved cable penetration in A-0 steel deck:

Type	Coaming size [mm]	Max. cable diameter (OD) [mm]	Filling Rate [%]	Min. coaming length [mm]	Min. coaming thickness [mm]	Coaming position	Coaming insulation
Rectangular	680 x 370	58	0 – 31	100	5	Symmetrical	None
Round	50A	12.5	6 – 17	100	3.65	Symmetrical	None

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

Type Approval documentation

Certification in accordance with Class Programmes DNV-CP-0338, September 2021.

Test report No. AK2024-0433 dated 26 December 2024 from Fire Insurers Laboratories of Korea (FILK), Gyeonggi-do, Korea.
Test report No. AK2024-0180 dated 12 July 2024 from Fire Insurers Laboratories of Korea (FILK), Gyeonggi-do, Korea.

Drawing No. RMBC-RS205-5QL-2407B04 dated 14 March 2024 from manufacturer.
Drawing No. RMBC-RS205-5QL-2402B01 dated 14 March 2024 from manufacturer.

Tests carried out

Tested in accordance with IMO 2010 FTP Code Part 3.

Marking of product

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

Transport Canada Approval

Based on the procedures laid down in the Transport Canada Publication entitled "Procedures for Approval of Life-Saving Appliances, Fire Safety Systems, Equipment and Products (TP14612)", 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 Programme DNV-CP-0338, Section 4.

Manufactured by:

Remitite Co., Ltd. 109-30 Yongdeok-ro 23beon-gil, Hallim-myeon, Gimhae, Gyeongnam, 50853, Republic of Korea.