

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Class A and B Penetration**

with type designation(s)

RGS cable penetration - non-loadbearing A-class

issued to

MCT Brattberg AB
Karlskrona, Sweden

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 cable penetration system in non-loadbearing A-class bulkheads for approved ship cables.

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 **2025-09-15**

This Certificate is valid until **2030-09-14**.

DNV local unit: **Denmark CMC**

Approval Engineer: **Kristin Grønnæss Hovden**

for **DNV**



Digitally Signed By:
Jowita Permoda

Location: **DNV Høvik, Norway**

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

RGS cable penetration - Non-loadbearing A-class, is a rectangular multi-cable penetration system consisting of a flanged frame mounted to the bulkhead on one side and a 75 mm deep Insulation Holder filled with A-60 insulation and held in place with aluminium tape. The frame is filled with MCT Insert Blocks (Standard Block, Handiblock, AddBlock, U-Block and Spareblock), stayplates and STG Endpacking with compression plate or PTG Presswedge.

Insulation Holder:

It consists of 75 mm deep, and 0.75 mm thick steel frame bolted to the division. The Insulation Holder may be manufactured at site in accordance with drawing sheet No. 1202-2.

Frame type(s): RGG (incl. RGGO)

Frame type(s): RGSFB (incl. RGSFBO)

The frames and Insulation Holder are to be bolted to the bulkhead.

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

Application/Limitation

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

Class A-0, A-15 and A-30 shall be insulated as for A-60.

Non-loadbearing A-60 bulkhead:

Approved for installation in A-class bulkhead sandwich panel type "G21 Fire Panel – A60" (manufactured by InterDam) or similar constructed A-class rated panels. The sandwich panel was constructed of 100 mm thick and 600 mm wide mineral wool core (density 120 kg/m³) and 0.6 mm thick galvanized steel sheets.

Table 1: Approved for non-loadbearing A-60 bulkhead:

Type	Size	Max cable diameter [mm]	Frame length [mm]	Frame thickness [mm]	Frame position	Frame insulation	Dwg. No.
RGG	2 - 8+8x5	108	60	6	Inside bulkhead, flange on either side.	Insulation holder is filled with A-60 insulation.	1250063
RGSFB	2	34	65	10	Inside bulkhead, flange on either side.	Insulation holder is filled with A-60 insulation.	1250063

Any insulation used during the fire test, must be kept there also when used in divisions with lower rating than fire tested.

Any surface materials used have to be approved for smoke and toxicity and low flame spread characteristics (IMO 2010 FTP Code parts 2 and 5) when required according to relevant rules.

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

Type Approval documentation

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

Test report No. 0100410-1223422 dated 15 February 2023 from RISE, Borås, Sweden.

Drawing No. 1250063 Rev. A dated 10 February 2025 from manufacturer.

Drawing No. 1202-2 dated 4 June 2025 from InterDam.

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 of manufacturer, type designation and fire-technical rating.



Job ID: **262.1-042814-1**
Certificate no.: **TAF00001ZH**

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:

MCT Brattberg AB, Lyckeåborg 371 92 Karlskrona Sweden.