Certificate no.:
TAF00001YA

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Class H Fire Wall and Bulkhead

with type designation(s)
H60 non-load bearing wall panel

issued to
IKM DSC Engineering AS
Hvalstad, **Norway**

is found to comply with
DNV offshore standards

Application:

Approved for use as a vertical non-load bearing fire retarding division of class H-60.

Issued at **Høvik** on **2025-04-11**
This Certificate is valid until **2030-04-10**.
DNV local unit: **East & South Norway CMC**

Approval Engineer: **Helge Bjørnarå**

for **DNV**

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

"H60 non-load bearing wall panel",
composed of 2.0 mm corrugated steel bulkhead insulated with three layers of 38 mm FireMaster Marine Plus blanket (density 128 kg/m^3, manufactured by Thermal Ceramics). The horizontal insulation joints for outer and inner layer was placed opposite from each other, the layer in between was displaced with approximately 300 mm. The panel valleys were infilled with three layers of insulation 200 mm from the top and bottom of the panel. The layers of insulation were attached to the panel with Ø3 mm steel stud pins (c-c 300 mm) and Ø38 mm washers and galvanized wire mesh.

The corrugated steel panels are joined together with a 2.0 mm infill plate of steel fully welded outside and tack welded inside. The corrugated steel panels were mounted to steel structures with steel angles with the dimensions of 4 mm x 110 mm x 120 mm (t x W x H). The angels were filled up with six layers of insulation equal to the insulation covered the panel. The layers of insulation were attached to the angel with insulation stud pins, washers and galvanized wire mesh (30x30x0.7).

For further details see drawing listed under Type Examination documentation below.

Application/Limitation

Approved for use as a vertical non-load bearing fire retarding division of class H-60.

General application: Fire hazard from either side.

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 maintenance.

Type Approval documentation

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

Test report No. O100410-1239018-2 dated 30 April 2024 from RISE, Trondheim, Norway.

Drawing No. DRW-049783, Rev. A dated 8 April 2024 from manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code part 3 with the hydrocarbon time-temperature curve specified in EN 1363-2.

Marking of product

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

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:

- Limeco AB, Uddevalla, Sweden.
- Western Technological Solutions UAB, Klaipeda, Lithuania.