



Certificate no.:
TAF00001VR

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Class H Fire Wall and Bulkhead

with type designation(s)
Wall panel with door

issued to

Sistemi Industriali S.p.A.
Milano MI, MI, Italy

is found to comply with
DNV offshore standards

Application:

Approved for use as a non-load bearing fire retarding bulkhead of class H-0.

Issued at **Høvik** on **2024-02-23**

This Certificate is valid until **2029-02-22**.

DNV local unit: **Italy/Malta CMC**

for **DNV**

Approval Engineer: **Helge Bjørnarå**

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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: 2023-09

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Product description

"Wall panel with door",

constructed of a 15 mm drywall FIRELINE 15 (manufactured by Gyproc SAINT-GOBAIN) covered on one side with 50 mm PROROX SL 960 (with density 100 kg/m³, manufactured by Rockwool) and 2 mm steel sheet and on other side with 100 mm PROROX SL 960 (with density 100 kg/m³, manufactured by Rockwool) and 3 mm steel sheet. The bulkhead incorporates a grid made up of horizontal L-shaped reinforcements every 554 mm welded to threaded studs penetrating the 2 mm steel sheets and point welded to the 3 mm steel sheet and vertical trapezoidal steel reinforcements welded to the 3 mm steel sheet every 346 mm.

The bulkhead panels are installed in a steel frame consisting of an internal and an external steel L-shaped profiles welded together. The panels are fixed to the steel frame with M12 screws every 400 mm. Between the wall panels and frame, ceramic paper gaskets are fitted on all three sides. On exposed side, a thermos expanding gasket is fitted.

Total bulkhead thickness is 150 mm.

The panel may incorporate a door. The door leaf is attached to the bulkhead with 4 hinges and an opening mechanism. The door leaf is of similar construction as the bulkhead. Ceramic gaskets are fitted around the perimeter of the door on the door leaf and bulkhead door frame. The door leaf is also fitted with a thermos expanding gasket.

Total door leaf thickness: 150 mm.

Maximum door leaf size: 885 mm 2185 mm (W x H).

Maximum clear opening: 768 mm 2068 mm (W x H).

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

This product is manufactured at the premises of Sistemi Industriali, Milano, Italy.

Application/Limitation

Approved for use as a non-load bearing fire retarding division of class H-0.

General application: Fire against the 2 mm steel sheet (facing the threaded studs).

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 and regulations.

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

Type Approval documentation

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

Test report No. 23/32300009 dated 30 June 2023 from LGAI Technological Center, Barcelona, Spain.

Drawing No. 22.H0-05 Rev.5 dated 30 May 2023 from Manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code part 3 with the furnace temperature following the hydrocarbon 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 Assessment at any time during the validity period of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Class Program DNV-CP-0338, Section 4.