Certificate No:
TAF00001KT

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class A Door

with type designation(s)
A-30 hinged door type HB-H

Issued to
Baggerød AS
HORTEN, **Norway**

is found to comply with
DNV rules for classification – Ships
DNV offshore standards
DNV statutory interpretations DNV-SI-0364 – SOLAS interpretations, Edition July 2021

Application :

Approved for use as an integrated part of fire retarding division of class A-30.

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 **2021-10-22**
This Certificate is valid until **2026-10-21**.
DNV local station: **Norway CMC, East-South**

Approval Engineer: **Marcin Tobiasz**

for **DNV**

Helene David-Andersen
Head of Section

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.

Product description

“A-30 hinged door type HB-H"
single leafed hinged door with doorblade composed of 1.0 mm steel sheets and an insulating core of 50 mm SeaRox SL660 of density 150 kg/m^3 manufactured by Rockwool and in the periphery of the doorblade 50 mm Firemaster Marine Plus Blanket (with breath of 100 mm on bottom edge and 220 mm on other edges) of density 128 kg/m^3 manufactured by Morgan Thermalceramics.

Total doorblade thickness: 52 mm.

The door frame may be welded or bolted to the steel bulkhead, and when bolted the bolting should be with M8 x 30mm bolts per 250 mm.

The door is fitted with three hinges.

Door may be fitted with hose port.

For further details, see the drawings listed under Type Approval documentation below.

Application/Limitation

The door is approved for installation in steel bulkheads of class A-30. Installation of the door in bulkheads made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Max. clear opening:	950 mm x 2100 mm (W x H).
Max. size of door leaf:	982 mm x 2115 mm (W x H).
Max. size of hose port:	150 mm x 150 mm (W x H).

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

The product or packing 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. 810-19TMU-IMO dated 06 August 2019 from TUV Eesti, Maardu, Estonia.

Tests carried out

Tested according IMO 2010 FTP Code part 3.

Marking of product

The product 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.