

TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MERB0001N3C
Revision no.:
0

This Certificate is issued by DNV UK Limited based on authorisation of the Maritime & Coast Guard Agency (MCA) as an UK Approved Body to undertake conformity assessments on marine equipment in accordance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016 as amended.

This is to certify:

that the **Fire doors**

with type designation(s)
HB6000

issued to

Baggerød AS
HORTEN, Norway

is found to comply with the Regulation (UK) **MSN 1874 Amendment 10** for
Item no. **UK/3.16 (Row 1 of 1)**
according to the following requirements:
IMO MSC.1/Circ.1511, SOLAS 74 Reg. II-2/9.

Further details of the equipment and conditions for certification are given overleaf.

Date of issue: **2025-05-19**

Expiry date: **2030-05-18**

DNV local unit:
Sandefjord



for **DNV UK Ltd.**

Approval Engineer:
Marcin Tobiasz

Approved Body No.: **0097**

Christine Mydlak-Röder
MER Service Responsible



Maritime &
Coastguard
Agency

UK Approved Body Authorised
by the MCA

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.

During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved Body.

"The Mark of Conformity" may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body. In case limitations of use apply, these should be indicated in the Annex.

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

"HB6000"

consists of single door leaf composed of insulating core made of two layers of insulation FireMaster Marine Plus (38 mm thick each, density 128 kg/m³, manufactured by Thermal Ceramics) covered with 3 mm thick steel sheet on hinged side and 1.5 mm thick steel sheet on opposite side. The door is internally stiffened with two vertical and four horizontal steel profiles 40x20x2 mm.

Max. door leaf thickness: 84.5 mm

The door leaf is fixed to a four-sided door frame with three hinges. The door frame is composed of 4 mm steel profiles and may be bolted, M8 x 30 c/c 300mm, or welded to the bulkhead.

The door leaf may be fitted with a 27mm thick window of type Pilkington Pyrostop 60-201. The window frame is made of 2 mm steel profiles and insulated with 3 or 5 mm thick strips of Fiberfrax Duraboard 120 LD (density 323 kg/m³, manufactured by Unifrax). In addition, 30 x 20 mm Promatect H (density 940 kg/m³) was used around the glass pane inside the door leaf. The window frame is fixed to door leaf by means of screws type M5x16.

For further details see test report and drawing mentioned under Type Examination documentation below.

Application/Limitation

The door is approved for installation in steel bulkheads of class A-60. Installation of the door in bulkheads made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Max. clear opening: 1100 mm x 2100 mm (W x H)

Max size of door leaf: 1178 mm x 2157 mm (W x H)

Max. clear opening of vision panel: 200 mm x 500 mm (W x H)

The insulation materials and adhesives used have to be approved according to the Marine Equipment Regulation and bear the Mark of Conformity. This requirement may also be applicable for surface materials used, if required by relevant rules and regulations.

Note that this is a fire safety certificate which only covers fire technical properties (i.e. not to cover strength evaluations related to watertightness, weathertightness, etc.).

A fire door of marginally larger dimensions than a fire-tested fire door may be individually assessed and accepted by Flag Administration (or Recognized Organization acting on its behalf) for a specific project with the same classification, provided documented compliance with IMO MSC.1/Circ.1319.

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

Type Examination documentation

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

The door has been successfully tested for extended test period of 68 minutes.

Marking of product

The product is to be marked with name and address of manufacturer, type designation, fire technical rating, and the



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