

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of Norway.

## This is to certify:

### That the Fire Doors

with type designation(s)  
**A-60 Hinged Door Type HB-H**

Issued to  
**Baggerød AS**  
**HORTEN, Norway**

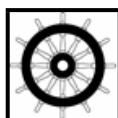
is found to comply with the requirements in the following Regulations/Standards:  
Regulation **(EU) 2019/1397**,  
**item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511, IMO MSC.1/Circ.1319**

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

This Certificate is valid until **2025-02-06**.

Issued at **Høvik** on **2020-02-07**

DNV GL local station:  
**Norway Fleet in Service, East-South**



for **DNV GL AS**

Approval Engineer:  
**Marcin Tobiasz**

Notified Body  
No.: **0575**

**Roald Vårheim**  
**Head of Notified Body**

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005, and amended by Decision No 1/2019 dated February 22nd, 2019.

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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



## Product description

"A-60 Hinged Door Type HB-H"

single leafed hinged door with doorblade composed of 1.5 mm steel sheets and an insulating core of 38 + 25 mm "FireMaster Marine Plus" of nominal density 96 kg/m<sup>3</sup> (manufactured by Morgan Advanced Materials). The door leaf steel is reinforced inside along the top and the lock side with flat steel spot welded to steel plate c/c 200 mm, and along the hinged side with U-profile spot welded c/c 150 mm to the steel plate. Two stiffeners 30 mm x 3 mm are welded to the steel sheet at the top and the bottom inside each door leaf.

Total doorblade thickness 63 mm.

The door frame composed of 1.5 mm Z-profile and 3 mm steel L- profiles, and fasten together with spot welding c/c 250 mm. The door frame is tack welded, L= 20 mm c/c 300mm, to the bulkhead on the opposite side of hinge-side.

The door is fitted with three hinges.

For further details see drawings 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 996 x 2100 mm (W x H).

Max. door leaf size, including rebates, 1085 x 2156 mm (W x H).

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive 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.)

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

## Type Examination documentation

Test report No.PG12215 Serial No. 12507 dated 29 June 2010 from DIFT, Copenhagen, Denmark.  
Assessment/confirmation from Morgan Advanced Materials dated 03 June 2019.

## Tests carried out

Tested according to IMO FTPC Part 3 and in compliance with IMO 2010 FTP Code Ch. 8.

## Marking of product

The product is to be marked with name and address of manufacturer, type designation, fire technical rating, the MED Mark of Conformity and USCG approval number if applicable.