DNV·GL

Certificate No:
MEDB00006T8

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)
H070DI - Double Hinged w/Inset Door (A-60)

Issued to
Rapp Bomek AS
Bodø, 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 **2021-09-30**.
Issued at **Høvik** on **2020-07-13**

DNV GL local station:
Norway Fleet in Service, Mid-North

Approval Engineer:
Helge Bjørnarå

Notified Body
No.: **0575**

for **DNV GL AS**

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.

NORWEGIAN ACCREDITATION PROD 019

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.

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Product description

H070DI - Double Hinged w/Inset Door (A-60),
is a double leaved door which consist of 3 mm steel sheets with stiffeners on each side and an insulating core of 2x25 mm + 38 mm "FireMaster Marine Plus Blanket" (density 96 kg/m^3, manufactured by Thermal Ceramics) and in the middle a 2x6 mm "Supalux" boards (density 960 kg/m^3, manufactured by Promat). Fibre material gasket Ø30 mm "Silica-FIB packing" with density of 450 g/m is fitted into the door blades against the door frames.

Total door leaf thickness is 100 mm.

The double hinged door is fitted with 4 hinges each and a four point latch system. The inset door is fitted with three hinges and a three point latch system. "A-60 Double Hinged with Inset Door" can be manufactured without Inset Door.

The door frames are made of 4 mm steel plates and the outer door frame may be bolted (M12 bolts c/c 200–260 mm) or welded into the bulkhead. The inset door frame is welded to the door blade of the double hinged door.

For further details, see drawings listed under Type Examination documentation.

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.

Maximum size of clear opening, inset door:	820 x 2050 mm (W x H)
Maximum size of clear opening, double door:	2330 x 2656 mm (W x H)
Maximum size of door assembly:	2520 x 2848 mm (W x H)
Maximum size of passive door leaf:	1321 x 2756 mm (W x H)
Maximum size of active door leaf:	1097 x 2756 mm (W x H)
Maximum size of inset door leaf:	912 x 2142 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.

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

Test report No.103060.34 dated 7 September 2011 from SINTEF, Trondheim, Norway.

Assessment report No. 305953 dated 30 March 2011 with supplementary Report No. 374890 dated 14 October 2016 from Exova Warringtonfire.

Dwg. No. RB309199W (24 pages) dated 11 April 2011 from manufacturer.
Dwg. No. RB309200W (13 pages) dated 13 April 2011 from manufacturer.

Tests carried out

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

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, MED Mark of Conformity and USCG number if applicable (see front page).