DNV·GL

Certificate No:
MEDB00006T7

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)
H070DT - Double Hinged w/Top Panel (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 **2022-05-04**.
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.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

NORWEGIAN ACCREDITATION PROD 019

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

H070DT - Double Hinged w/Top Panel (A-60),
is double hinged stiffened steel door with top panel. The top panel and the door leaves are insulated with two 38 mm thick layers of ceramic fibre Firemaster X-607 (density 128 kg/m^3, manufactured by Thermal Ceramics) and with 6 mm thick Supalux board (density 875 kg/m^3, manufactured by Promat).

Ceramic gaskets are fitted in the door frame, and expansion gasket is fitted between primary and secondary door leaf. One of the door leaves may be fitted with a 27 mm thick window of type Pilkington Pyrostop 60-201. The door is fitted with a "3-Point Latch". Each door leaf is fixed to a 4 mm steel profile frame with 4/3 hinges for single/double door, respectively. Door frame may be bolted (M12 bolts c/c 145–275 mm single door, c/c 180–295 mm double door) or welded to the bulkhead

Total door leaf thickness is 88 mm (single door) and 82 mm (double door).

A-60 double leaf hinged door with top panel A60 class can be manufactured as a single door with top panel and as a double door without top panel.

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 door opening:	2330 x 2658 mm (W x H)
Maximum size of primary door leaf:	1265 x 2235 mm (W x H)
Maximum size of secondary door leaf:	1155 x 2235 mm (W x H)
Maximum size of top panel:	2372 x 512 mm (W x H)
Maximum size of clear window glazing unit:	200 x 500 mm (W x H)

The insulation materials 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.

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

Type Examination documentation

Test report No. 103060.27 dated 20 June 2007 from SINTEF, Trondheim, Norway.
Test report No. 20060 dated 20 February 2015 from SP, Trondheim, Norway.

Assessment No. 150101-19 dated 4 January 2017 from SP, Trondheim, Norway.

Dwg. No. RB306998W Rev.0 dated 29 March 2007 from manufacturer.
Dwg. No. RB601678W Rev.0 dated 14 October 2014 from manufacturer.

Tests carried out

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

Marking of product

The product is to be marked with name and address of manufacturer, type designation, fire-technical rating, Mark of Conformity and USCG approval number if applicable (see front page).

USCG approval limitations

The approval is limited to fire doors without windows and doors with total window area of 645 cm², or less, in each door leaf. For larger windows, USCG shall be contacted.