DNV·GL

Certificate No:
MEDB00005MR

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)
A60MW

Issued to
QINHUANGDAO XINGYANG MARINE FITTING CO., LTD.
Qinhuangdao, China

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

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

This Certificate is valid until **2024-12-15**.
Issued at **Høvik** on **2019-12-16**

DNV GL local station:
Tianjin

Approval Engineer:
Thorvald Furuseth

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.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

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Product description

"A60MW"
A single leafed hinged door made of 8 mm stiffened steel plate insulated with 2 x 20 mm layers of ceramic wool type LYHX-816T (160 kg/m^3) from Shandong Luyang Share Co., Ltd and 10 mm calcium silicate board of type LGB-0 from Suzhou City Weiyu Marine Material Decoration Co., Ltd. A 1 mm steel plate is fitted on the opposite side. The 8 mm steel plate is bent around the edge. The door is fitted one vertical and two horizontal steel stiffeners (30 x 35 x 10 mm T type steel). In addition the door is stiffened around the edge of the door leaf with 6 mm steel stiffener (50 mm deep) place 44 mm from the edge of the door leaf. The door leaf is fitted with a rubber gasket from Jiangyin Junshan Marine Fittings Co., Ltd.

Total door leaf thickness is 59 mm.

The door is fitted with three hinges and a linkage locking device. The locking device consists of a steel handle, steel connections and 12 clips.

The door leaf may be fitted with a 36 mm thick circular window from QINHUANGDAO XINGYANG MARINE FITTING CO., LTD.

The door frame is made of 10 mm angeled steel, and is welded to the bulkhead.

For further details, see the drawings listed 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.

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.).

Maximum door leaf size: 1270 mm x 2070 mm (W x H).
Maximum clear door opening: 1200 mm x 2000 mm (W x H).
Maximum size of fire technical glazing unit: ø300 mm.

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.

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

Type Examination documentation

Test Report No. FT14017 dated 21 January 2014 from Far East Fire Testing Centre, Shanghai, China.

Drawing No. XY0288 from the manufacturer.

Tests carried out

Tested according to 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, the MED Mark of Conformity, and USCG approval number if applicable (see first 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.