

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-SUS

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

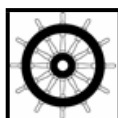
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-12-12**.

Issued at **Høvik** on **2019-12-13**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Product description

"A60MW-SUS"

Single leaf hinged door composed of 28 mm ceramic wool insulation of type LYHX-816T of density 160 kg/m³ (from Shandong Luyang Share Co., Ltd.) faced with 10 mm calcium silicate board of type LGB-0 (from Suzhou City Weiyu Marine Material Decoration Co., Ltd) on both sides. 1 mm steel sheets are glued to both calcium silicate boards. 1.5 mm thick stainless steel edge cover was fitted around the door leaf edge. The door leaf is fitted with a Expansion Graphite Bar (from Shanghai Jiar Fu Decoration Co., Ltd). The door leaf is fitted with three hinges.

Total door leaf thickness is 50 mm.

The door frame is made of 10 mm angled steel filled with no insulation, and is welded to the bulkhead.

The door may be fitted with a 44 mm thick window from QINHUANGDAO XINGYANG MARINE FITTING CO., LTD.

For further details, see the drawing 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: 1043 mm x 2043 mm (W x H).

Maximum clear door opening: 1000 mm x 2000 mm (W x H).

Maximum size of fire technical glazing unit: 520 mm x 520 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.

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

Type Examination documentation

Test Report No. FT14018 dated 22 January 2014 from Far East Fire Testing Centre (FEFTC), Shanghai, China.

Drawing No. XY0111 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 doors with larger windows, USCG shall be contacted.