

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

## This is to certify:

### That the Fire Doors

with type designation(s)

**HLMA60II(S.FY) Type class A-60 Double-opening Fire Door**

Issued to

**Tianjin Huali Thermal Insulation Building Material Co., Ltd.**  
**TIANJIN, 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, IMO MSC.1/Circ.1319**

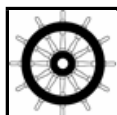
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-06-15**.

Issued at **Hamburg** on **2020-06-16**

DNV GL local station:  
**Tianjin**

Approval Engineer:  
**Karolina Kusmider**



Notified Body  
No.: **0098**

for **DNV GL SE**

**Gerhard Aulbert**  
**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 European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th, 2004, and amended by Decision No 1/2018 dated February 18th, 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 SE 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

### "HLMA60II(S.FY) Type class A-60 Double-opening Fire Door"

is a class A-60 double-leaf fire door. Each of the door leaf is composed of 0.8 mm thick steel plate, 10 mm calcium silicate board, 38 mm thick THG-170 type ceramic wool of 170 kg/m<sup>3</sup> nominal density, manufactured by Tianjin Huali Thermal Insulation Building Material Co., Ltd, 10 mm calcium silicate board, 0.8 mm thick steel plate. Around and in the middle of the door leaf there is inner-frame stiffener and vertical stiffener made of 1.5 mm thick steel plate. The insulation material inside the door leaf is fixed by the adhesive.

Total thickness of door leaf: 60 mm

Each door leaf may be fitted with a fireproof door lock C-7(CTD) type from Shanghai Liyong Lock Co., Ltd, installed at the door leaf, located 1317 mm from the bottom. Each door leaf is attached to the door frame by four hinges.

The door frame is a four-sided door frame made by steel plate of 1,5 mm, filled in the interior with ceramic wool insulation and stiffened by 3 mm steel plate inside the door frame at the hinge side. The fireproof seal strip 14 mm x 21 mm and 14 mm x 10 mm is used in the inside and outside groove of door frame, provided by Shanghai Jiar Fu Decoration Material Company Ltd. The door frame may be welded or bolted (M6x25 screws spaced maximum 500 mm apart) to the bulkhead.

For further details, see the test report and 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. size of left door leaf:     | 1061 mm x 2707 mm (w x h) |
| Max. size of right door leaf:    | 1093 mm x 2707 mm (w x h) |
| Max. clear opening of door leaf: | 1100 mm x 2650 mm (w x h) |
| Max. clear opening of door:      | 2100 mm x 2650 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. FT18265 dated 22<sup>nd</sup> November 2018 from Far East Fire Testing Centre, Shanghai, China.

## Tests carried out

Tested according to IMO FTP Code Part 3 and in compliance with IMO 2010 FTP code ch.8.

## Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, fire technical rating, Mark of Conformity and USCG marking if applicable (see first page).