EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000B5G
Revision no.:
0

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 AS under the authority of the Government of Norway.

This is to certify:

that the **Fire doors**

with type designation(s)
SZMA60CX(I) Type A-60 class door

issued to
Huanan Building Materials (Shenzhen) Co., Ltd.
Shenzhen, **China**

is found to comply with the Implementing Regulation **(EU) 2024/1975** for
Item no. **MED/3.16** (Row **1 of 1**)
according to the following requirements:
SOLAS 74 Reg. II-2/9, IMO MSC.1/Circ.1511, SOLAS 74 Reg. II-2/9.

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

Date of issue: **2025-07-29**

Expiry date: **2030-07-28**

DNV local unit:
China South NB

Approval Engineer:
Katarzyna Baczewska

Notified Body
no.: **0575**

for **DNV AS**

Christine Mydlak-Röder
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 1/2023 dated August 21st, 2023.

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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 AS, its parent companies and their subsidiaries as well as their officers, directors and employees (“DNV”) 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 USD 300 000.

Product description

"SZMA60CX(I) Type A-60 class door"
is a double-leaf, hinged door with a door leaf constructed of an insulation core made of 50 mm thick rockwool (120 kg/m³ density manufactured by Rockwool Firesafe Insulation (Guangdong)), covered on both sides with 6 mm thick calcium silicate boards of LGB-0 type (1100 kg/m³ density manufactured by Suzhou Weiyu Marine Materials Decoration). Insulation materials are covered by 1.2 mm thick galvanized steel sheets on both sides. The insulation inside the construction is glued with adhesive of YB2002X/YB8001 type.

Total door leaf thickness: 54 mm

The door leaf may be fitted with:
- an observation window in the upper half of the door leaf 450 mm x 450 mm (W x H) with nominal thickness 32 mm (composed of 5 mm tempered glass, 22 mm thick fireproof liquid and 5 mm tempered glass) manufactured by Huanan Building Materials (Shenzhen), in the upper part of the door leaf,
- a fireproof door lock located 1100 mm from the bottom of the door leaf,
- a hose port (in the lower corner of the right door leaf) of 50 mm thickness in external size which is connected to the door leaf by 6" stainless steel spring hinges.

The door leaves are attached to the steel frame with 3 steel hinges on each side. The three-sided door frame is made from 4 mm thick steel and is bolted by means of M6 x 25 screws (max. c/c 300 mm) to the bulkhead. The door frame is fitted with a fireproof expansion strip.

For further details, see the test report and drawing mentioned under Type Examination documentation below.

Application/Limitation

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. door leaf size: 1285 mm x 2323 mm (W x H)
Max. clear door opening: 2500 mm x 2300 mm (W x H)
Max. clear window opening: 420 mm x 420 mm (W x H)
Max. clear opening of hose port: 150 mm x 150 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 door is to be supplied with its manual for installation, use and maintenance.

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.

Type Examination documentation

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).