DNV·GL

Certificate No:
MEDB0000023

EC-TYPE EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2013/52/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the Fire Doors

with type designation(s)
SZMA60CX Type Class A-60 Fire Door

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

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/3.16 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2/and IMO 2010 FTP Code

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

Høvik, 2015-08-03
for **DNV GL AS**

This Certificate is valid until
2020-08-02

Notified Body No.: **0575**

Petter Langnes
Head of Department

DNV GL local office:
China South CMC/ SIO

Piotr Orzechowski
Surveyor

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Job Id: **344.1-004829-1**
Certificate No: **MEDB0000023**

Product description

"SZMA60CX Type Class A-60 Fire Door"
consisting of double leaved hinged door with two equal sized door leaves composed of 37 mm thick insulation material from Rockwool Firesafe Insulation (Guangzhou) Co., Ltd. with density of 120 kg/m^3, cover with 6 mm thick calcium silicate board type LGB-0 from Suzhou Weiyn Material Decoration Co. Ltd. with density of 1100 kg/m^3 and 0.55 mm thick galvanized steel sheet on both sides. The insulation is fixed to the calcium silicate board with an adhesive.
The door leaves are attached to the steel frame with 3 hinges on each side.
The three-sided door frame is made of 3 mm thick steel plates, fitted with a fireproof expansion strip (from Shanghai Jiar Fu) at the mid-seam of the door leaves and connected to the bulkhead with screws.
Both doors may be fitted with fire window type FB-32 from Huanan Building Materials and fire hose port in lower left corner of the right door leaf with clear opening 150 x 150 mm (Width x Height).

Door leaf thickness is 50 mm.

For further details see drawing in test report mentioned 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.

Max size of door blade:	1015.5 x 2103.5 mm (width x height).
Max clear opening:	2000 x 2100 mm (width x height).
Clear opening, window:	420 x 420 mm (width x height).

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 and maintenance.

Type Examination documentation

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

The product or packing is to be marked with name of manufacturer, type designation, fire-technical rating, Mark of Conformity and USCG marking when required (see below).

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.

USCG Approval

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.

USCG approval limitations:

The approval is limited to fire doors without windows and doors with total window area of 645 cm^2, or less, in each door leaf. For larger windows, USCG shall be contacted.