EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB0000836

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)
Sliding Steel Door A60 type FMA and N

Issued to
IMS Group AS
Akland, **Norway**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2021/1158,**
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 **2025-10-21**.

Issued at **Høvik** on **2022-07-01**

DNV local station:
West Norway CMC

Approval Engineer:
Helge Bjørnarå

Notified Body
No.: **0575**

for **DNV AS**

Sverre Olav Bergli
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 1/2019 dated February 22nd, 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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 300,000 USD.

Product description

Sliding Steel Door A60 type FMA and N,
is a single leaf sliding steel door assembly. The door leaf is insulated with 25 + 38 mm Superwool Plus Blanket (manufactured by Thermal Ceramics with density of 128 kg/m^3). Both sides of the insulation layer are covered with steel sheets of 2 and 3 mm thickness respectively. Steel angle-stiffeners are welded to the 6 mm or 8 mm thick steel plate. Size of the stiffeners as well as thickness of a plate depends on the type of the door, which may be produced in two different types: 3562FMA & 3562N (N280 and N200) with three different types of sills: F12, MR and AH.

For more details regarding sizes of stiffeners, plate thickness, etc. please see the 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. clear opening: 2000 x 2000 mm (w x h)
Max. size of door leaf: 2321 x 2081 mm (w x h)

The minimum number of locking pins (cleats) is 4 on the front and 3 on rear side of the door leaf.

Upper stiffener of the door must be always insulated. If number of stiffeners is nine or more, the two upper stiffeners must be insulated.

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.

A fire door of marginally larger dimensions than a fire-tested fire door may be individually assessed and accepted by Flag Administration (or Recognized Organization acting on its behalf) for a specific project with the same classification, provided documented compliance with IMO MSC.1/Circ.1319.

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

Type Examination documentation

Test report No. 150071-12-01 version 1 dated 24 February 2016 from SP, Trondheim, Norway.
Technical assessment No. 150101-13 version 1 dated 14 June 2016 from SP, Trondheim, Norway.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

The door has been successfully tested for extended test period of 80 minutes.

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).