DNV·GL

Certificate No:
MEDB00004X8

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)
A-60 Single Leaf Sliding Door with Window

Issued to
MML Marine Ltd
Coatbridge, United Kingdom

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2018/773,**
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 **2023-12-18**.

Issued at **Hamburg** on **2018-12-19**

DNV GL local station:
Glasgow

Approval Engineer:
Timo Linn

Notified Body
No.: **0098**

for **DNV GL SE**

Sven Dudszus
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.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

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Product description

"A-60 Single Leaf Sliding Door with window"
Single leaf sliding door with door leaf made from 2 mm steel sheets, insulated with a core of 2 x 25 mm (inner layer) and 2 x 13 mm (outer layer) ceramic fibre "Superwool 607" (uncompressed) of density 128 kg/m^3, manufactured by Thermal Ceramics.

Alternatively insulation: a core of 2 x 38 mm (inner layer- uncompressed) Thermal Ceramics "Marine Firemaster Blanket" of density 128 kg/m^3 and 2 x10 mm (outer layer) Promat "Promaguard Blanket" (uncompressed) of density 240 kg/m^3.

The door is further fitted with 4 mm horizontal and vertical stiffeners.

The door angle frame and door stopper is made of 4 mm steel and fully seam welded to the bulkhead

The door is fitted with a 27 mm Pyrostop window made by Pilkington UK Ltd. with clear opening 400 mm x 400 mm.

Total thickness of door leaf is 62 mm.

For further details see drawings etc. as stated in the test reports as mentioned under Type Approval documentation below.

Application/Limitation

Approved for use as an integrated part of A-60 Class bulkheads.

Max. clear opening of window: 400 mm x 400 mm (W x H)
Max door leaf size: 2375 mm x 2541 mm (W x H)
Max. clear opening size: 2296 mm x 2492 mm (W x H)

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.

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. 199616 dated 26th of Januar 2011 from Warrington Fire Research, Warrington, UK.
Test report no. 306224 dated 20th of May 2011 from Warrington Fire Research, Warrington, UK.

Assessment letter dated 6th of June 2011 from Warrington Fire Research, Warrington, UK (Insulation and window).

Drawing no. 540-2056-05 Rev. B dated 5th of April 2011 from manufacturer.

Tests carried out

Tested according to IMO Res. MSC.61(67), Annex 1, Part 3 and in compliance with IMO 2010 FTP Code Ch. 8.

The door has been successfully tested with extended test period of at least 68 minutes.

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. Doors with a window area exceeding 645 cm² are not part of this certificate and need direct USCG approval.

Marking of product

The product is to be marked with name and address of manufacturer, type designation, fire-technical rating, MED Mark of Conformity and USCG approval number if relevant (ref. page 1).