

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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 GL AS under the authority of the Government of Norway.

This is to certify:

That the Fire Doors

with type designation(s)
Premium/Platinum Marine C4 A-0

Issued to
TECNOLAMA, S.A.
Reus, Tarragona, Spain

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2017/306**,
item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511

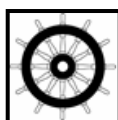
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2023-06-05**.

Issued at **Høvik** on **2018-06-06**

DNV GL local station:
Barcelona

Approval Engineer:
Synnøve Bolstad Eri



Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
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.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Product description

"Premium/Platinum Marine C4 A-0"

is a four leaf telescopic lift landing door with central opening which comes in two versions (premium or platinum). The door is composed of door frame, four door blades, door carriers (direct fastening or hanger set), roller devices, guide rails, locking arrangement and sealing materials.

Each door blade is constructed from 1.5 mm thick steel panel on exposed side also forming the vertical corners of the door leaf. Each door is fitted with four horizontal panel reinforcements (2 at top and 2 at bottom) made from 2.5 mm thick steel sheet of dimension 362 mm x 35 mm x 841 mm (h x d x b), and one vertical panel reinforcement (in center) made from 0.8 mm thick steel of dimension 35mm x 116 mm x 1880 mm (d x b x h). Four additional 1 mm thick steel panel angles are placed at each lateral leaf (except central part).

Total thickness of door leaf is 40 mm.

The frame is made of 3 mm thick steel and consist 3 sided frame and sill. The inner parts of header frame is filled with 2 layer (each 15 mm) of insulation with reference "Marine Board MHTB D180" by Knauf Insulation, density of 180 kg/m³. Frame is welded together and to the bulkhead.

Intumescent strips are fitted along perimeter of frame and along connection profiles of door leaves.

For further details, please see Type Examination documentation below.

Application/Limitation

The door is approved for installation in steel bulkheads of class A-0. Installation of the door in bulkheads made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Restricted application: mounted on unexposed side only

Max. clear opening: 1400 mm x 2100 mm (w x h)
Max. size of door blade: 420 mm x 2105 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.

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. 17/15281-2368 dated 2 May 2018 from LGAI Technological Center, S.A., Barcelona, Spain.

Assessment report no. 399368 dated 8 May 2018 from Exova Warringtonfire, Warrington, UK. (premium/platinum frame type, direct/hanger set door carrier).

Drawing No. DRW-TC.IM.00.000000.00 (5 pages) dated 30 November 2017 from the manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

The door has been successfully tested for extended test period of 68 minutes.



Job Id: **344.1-006027-1**
Certificate No: **MEDB00001R8**

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).