

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-60

Issued to

TECNOLAMA, S.A.
Reus, Tarragona, Spain

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2020/1170**,

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

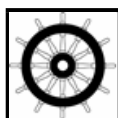
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-11-25**.

Issued at **Høvik** on **2020-11-26**

DNV GL local station:
Barcelona FIS

Approval Engineer:
Helge Bjørnara



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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

"Premium/Platinum Marine C4 A-60"

is a four leaf telescopic lift landing door with central opening which comes in two finishes (mild steel w/wo stainless steel cladding) and in two versions (premium or platinum). The door is composed of door frame, four door leaves (w/wo stainless steel cladding), door carriers (direct fastening or hanger set), roller devices, guide rails, locking arrangement, closing system (counter weight or spirator) and sealing materials.

Each door leaf is constructed of 1.5 mm mild steel panel on exposed side also forming the vertical corners of the door leaf. Each door is fitted with two horizontal panel reinforcements (one at top and one at bottom) made from 2.5 mm mild steel sheet (348 x 35 x 31.5 mm), and two insulation panels with reference "Gipsbifire" of density 880 kg/m³ by Bifire and total thickness 24 mm. Four additional 1 mm mild steel panel angles are placed at each lateral leaf (except central part).

Total thickness of door leaf is 40 mm. Cladded panel +1.5 mm.

The frame is made of 3 mm mild or stainless steel and consists of three sided frame and sill. The frame is filled with 40 mm thick insulation with reference "Marine Board MHTB D180" by Knauf Insulation, density of 180 kg/m³. Frame is continuously or staggered (20 mm, c/c 80 mm) welded to each other and to the bulkhead.

Intumescent strips are fitted along perimeter of frame and along connection profiles of door leaves, except central part.

For further details, please see Type Examination documentation below.

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.

Restricted application: mounted on unexposed side only

Max. clear opening: 1400 x 2100 mm (w x h)
Max. size of door leaf: 370 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. 9740/19 dated 27 June 2019 from AFITI, Madrid, Spain.

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

Drawing No. A-60 (5 pages) dated 28 May 2019 from the manufacturer.

Drawing No. DRW-TC.IM.00.039999.00 (5 pages) dated 6 November 2020 from the manufacturer.

Doc. No. DOC-FE.PM.DT.204502.EN (2 pages) dated 5 November 2020 from the manufacturer.



Job Id: **344.1-010167-1**
Certificate No: **MEDB000068V**

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.

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).