



EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00003RE
Revision No:
1

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)
A-60 Double Leaf Vertical Sliding Door for lifts

Issued to
Metal-Tech Nederland
Oss, Noord-Brabant, Netherlands

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

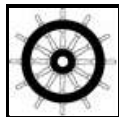
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2023-08-20**.

Issued at **Høvik** on **2021-04-08**

DNV local station:
Netherlands CMC

Approval Engineer:
Tessa Biever



Notified Body
No.: **0575**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

“A-60 Double Leaf Vertical Sliding Door for lifts”

A lift door construction consisting of two door leaves, a vertical chain construction and a frame. The door leaves consist of 1.5 mm steel plates around an insulating core of 30 + 33 mm Skamol Super Pro 225 (manufactured by Skamol with density of 225 kg/m³). The steel plates on the unexposed side are perforated with 4 holes, Ø30 mm, along the upper horizontal border of the upper door leaf and along the lower horizontal border of the lower door leaf. A 3 mm thick insulation material with type designation Insulfrax FT (manufactured by Unifrax with density of 230 kg/m³) is fixed:

- in the connection between the door leaves and the labyrinth seal on the unexposed side of the door leaves,
- in the horizontal connection between the door leaves,
- in the upper and lower horizontal connection between the door leaves and the frame.

Thickness of the door leaves: 66 mm.

The frame is made of 1.5 mm thick steel, insulated with 50 mm Insulfrax blanket (manufactured by Unifrax with density of 128 kg/m³), and is welded to the bulkhead. The frame and the vertical chain construction are to be according to drawing No. 40050114 Rev. A in Assessment No. 11202A.

For further details see drawing listed under Type Examination documentation.

Application/Limitation

The door is approved for use only as an integrated part of lift enclosure steel boundaries of class A-60. Installation of the door in parts made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Total size of both door leaves:	899 x 1315 mm (w x h).
Size of upper door leaf:	899 x 685 mm (w x h).
Size of lower door leaf:	899 x 616 mm (w x h).
Max. clear opening:	810 x 1025 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.

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

Type Examination documentation

Test Report with File No. PG11202 Serial No. 9107 dated 30 June 2003 from Danish Institute of Fire Technology (Dift), Copenhagen, Denmark.

Assessment with File No. 11202A dated 10 July 2003 from Danish Institute of Fire Technology (Dift), Copenhagen, Denmark.

Drawing no. 40050114 Rev.A “DOUBLE LEAF VERTICAL SLIDING DOOR FOR PANTRY LIFT – CLASS A60”

Tests carried out

Tested in accordance with IMO FTPC Part 3 and in compliance with IMO 2010 FTP Code Ch. 8.

Marking of product

The product is to be marked with name and address of the manufacturer, type designation, fire-technical rating, the MED Mark of Conformity and USCG approval if applicable (see first page)..