# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
**MEDB00003RD**
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 Single Leaf Hinged Lift Door**

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**
Digitally Signed By: Hoff, Øyvind
Location: DNV Høvik, Norway
on behalf of

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

## Product description

**"A-60 Single Leaf Hinged Lift Door"**

A lift door construction consisting of a single leaved hinged door. The door leaf is constructed of 1.5 mm steel sheets around an insulating core of 40 + 20 mm Skamol Super Pro 225 (manufactured by Skamol with density of 225 kg/m$^3$). The parts are glued together by means of Skamol Super Pro Glue (manufactured by Skamol with area weight 450 g/m$^2$). The door leaf has two rows of Ø20 mm ventilation holes along the bottom of the exposed side. An insulation material with type designation Sika Firestop (manufactured by SIKA with density of 2000 kg/m$^3$) is fixed in the rabbet on the vertical side of the door leaf that is facing the hinges and in the front of the lock case and latch. An insulation material with type designation Insulfrax paper (manufactured by Unifrax with density of 200 kg/m$^3$) is fixed:

- in the rabbet on the horizontal top side and both the vertical sides of the door leaf, thickness 2 mm,
- in the rabbet around the cup for recessed lever, thickness 2 mm,
- in the rabbet on the horizontal bottom side of the door leaf, thickness 3 mm.

Total thickness door leaf: 63 mm.

The door has two hinges, positioned at the top and at the bottom of the doorpost. Along the hinged side of the door leaf two doc bolts, 16 x 16 mm, are welded to the doorframe with a distance of 600 mm. The door has a three-point latch.

The door frame is constructed of 3.0 mm thick steel box profile and 1.5 mm thick flat steel insulated with 50 + 13 mm Insulfrax ceramic fibre blanket (manufactured by Unifrax with density of 128 kg/m$^3$).

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.

Restricted application: fire from corridor side and door opening into the corridor.

Clear opening: 1000 x 2000 mm (w x h).
Max. size door leaf: 1090 x 2055 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 No. PG 11260/9248 dated 15 October 2003 from DIFT, Denmark.

Drawing No. 40050115, revision A, dated 27 August 2003.

## 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)