

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB000087J

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)
Double-leaf hinged fire door A30 for lift applications

Issued to

Schindler AS
Nesttun, Norway

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

Regulation (EU) 2022/1157,
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

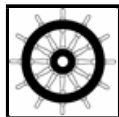
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2027-10-10**.

Issued at **Høvik** on **2022-10-11**

DNV local station:
Mid-North Norway CMC

Approval Engineer:
Helge Bjørnara



Notified Body
No.: **0575**

for **DNV AS**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

“Double-leaf hinged fire door A30 for lift applications”

is a hinged, double leaf steel door. Each door leaf is constructed of 1.5 mm steel sheets with two 38 mm thick layers of ceramic fibre type FireMaster Marine Plus (density 128 kg/m³, manufactured by Thermal Ceramics). Each door leaf is fitted with two vertical panel reinforcements (one Z profile and one U profile). Each door leaf is fixed to the door frame with 4 hinges. Intumescent strips type “Palusol Pyrostrip” are fitted along the perimeter of the door leaves.

Total thickness of door leaf is 78 mm.

The door frame is made of 1.5 mm steel and consists of three-sided frame and a sill. The frame is filled with two layers of ceramic wool type FireMaster Marine Plus (density 128 kg/m³, manufactured by Thermal Ceramics). The door frame may be bolted (M12 bolts c/c 200 mm) or welded to the bulkhead.

The passive door leaf is fitted with a locking bar in the lower corner. The active door leaf is fitted with a latch bolted in the upper corner and a door closer.

For further details, please see Type Examination documentation below.

Application/Limitation

The door is approved for installation in steel bulkheads of class A-30. Installation of the door in bulkheads made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Restricted application: door fitted on unexposed side, opens towards exposed side (landing/corridor side)

Maximum clear opening:	1300 x 1990 mm (w x h)
Maximum size of door leaf:	684 x 2033 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. 150071-41 dated 2 June 2022 from RISE, Trondheim, Norway.

Drawing No. JT01-RO-LR110-R-XD-2001-01, Rev.04, dated 9 May 2022 from 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.

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).