

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00008HH

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 on high speed craft

with type designation(s)
SKB OC50 Single leaf hinged door - FRD60

Issued to

Skandi Bo Indoor AS
Jerslev Sjælland, Sjælland, Denmark

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

Regulation **(EU) 2023/1667**,
item No. MED/3.35. SOLAS 74, Regulation X/3, 2000 HSC Code 7 and IMO 2010 FTP Code

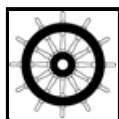
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2028-12-19**.

Issued at **Høvik** on **2023-12-20**

DNV local unit:
Denmark CMC

Approval Engineer:
Helge Bjørnara



for **DNV AS**

Notified Body
No.: **0575**

Mydlak-Röder, Christine
Head of Notified Body



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"SKB OC50 Single leaf hinged door - FRD60",
is a hinged single leaf door composed of glazed leaf with an aluminium frame, locking arrangement, 3 hinges and sealing materials.

The door leaf is constructed of a 27 mm thick glass pane "ContraFlam Marine" (manufactured by Vetrotech Saint Gobain) with dimensions 804 mm x 2038 mm (w x h).

Each corner of the glass pane was placed on 2 pcs of "Promat Glass block" which is kept in place by means of steel clips. The steel clips were mounted with a c/c of approximately 300 mm. On the exposed side of the glass pane there was a glazing bead "Glazing bead 20527" made of an extruded aluminium profile and a 3 mm rubber list. The unexposed side the glass pane was supported by the door leaf frame profile and a rubber profile "MBM 150351".

Total thickness of door leaf is 76 mm.

The door leaf frame consisted of two extruded aluminium profiles joined together with two glass fibre insulators "Technoform". These aluminium horizontal and vertical frames are connected by corner profiles. A strip of 2 mm x 20 mm Intumex LFCSK was adhered to all glass fiber insulators.

Every cavity of the door frame profile was filled with the gypsum-based insulation material "SKB Firefiller" (manufactured by Skandi Bo with density 950 kg/m³).

The door frame was fixed to the glazed bulkhead using several lines of filler "Dow Corning DC 895". These lines were approximately 150 mm long and there were 5 along each vertical side (both on exposed and unexposed side). The vertical door frame members were fixed to the bottom profile of the glazed bulkhead with a 2 mm thick 13 x 36 x 36 mm U-profile.

3 pcs. "SKB" stainless hinges are mounted 310 mm and 560 mm from the top of the door leaf to the bottom of the hinges as well as 275 mm from the bottom of the door leaf to the bottom of the hinge.

For further details, please see Type Examination documentation below.

Application/Limitation

Approved for use as an integrated part of a non-load bearing fire-resisting bulkhead 60 type "SKB OCEAN OC50" from Skandi-Bo. Installation of the door in other bulkheads is subject to case-by-case approval.

Max. clear opening: 900 mm x 2150 mm (w x h)
Max. size of door leaf: 920 mm x 2154 mm (w x h)

Restricted application: fire towards "Glazing bead 20527" side.

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. PGA11004A, Rev.1, dated 1 September 2017 from DBI, Hvidovre, Denmark.

Tests carried out

Tested according to IMO 2010 FTP Code part 11.

Marking of product

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