

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00004X2
Revision No:
2

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 'A' and 'B' class fire proof windows and side scuttles

with type designation(s)
A-0 WINDOW three parted 2500 x 2200

issued to

C.C. Jensen Window A/S
Svendborg, Syddanmark, Denmark

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

Regulation (EU) 2023/1667,

item No. MED/3.25. SOLAS 74 as amended, Regulation II-2/9, IMO MSC/Circ.1120 and IMO 2010 FTP Code, IGC Code 3

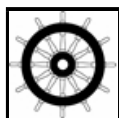
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2029-04-30**.

Issued at **Høvik** on **2024-05-01**

DNV local unit:
Denmark CMC

Approval Engineer:
Helge Bjørnara



Notified Body
No.: **0575**



for **DNV AS**

Digitally Signed By:
Christine Mydlak-Röder
Location: **DNV Høvik, Norway**
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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"A-0 WINDOW three parted 2500 x 2200",

is a window composed of three panes mounted in a steel frame and held in place by a stainless steel glass list. The windowpanes are constructed of three layers of 6 mm + 6 mm + 10 mm toughened glass with 4 mm fire layer between two 6 mm glass and 8 mm air gap between 6 mm and 10 mm glass. The tempered pressure resisting glass may alternatively be 10, 12, 15, 19 or 25 mm thick. Glass panes are fitted in a steel frame with two vertical steel mullions welded to the frame.

A strip of 40 mm insulation blanket Insulfrax S (density 128 kg/m³, manufactured by Unifrax) is mounted along the edges of the glass panes and the extruded profile. Two supporting blocks of 35 mm insulation board Promarine 640 (density 640 kg/m³, manufactured by Promat) is mounted at the bottom of the glass panes.

Total thickness of glazing unit: 34 mm.

Window frame is welded to bulkhead.

For further details see drawings listed under Type Examination documentation below.

Application/Limitation

The window is approved for installation in steel bulkheads of class A-0. Other applications are subject to case-by-case approval.

Restricted application: Fire against 6 mm toughened glass.

Maximum size of window:	2560 mm x 2260 mm (H x W)
Maximum size of total glazing frame:	2500 mm x 2200 mm (H x W)
Maximum size of each glazing unit:	2220 mm x 1120 mm (H x W)

The window has only been evaluated with respect to fire technical properties (e.g. strength requirements have not been considered). Arrangement and location of any window is subject to approval from relevant authorities in each case.

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

Type Examination documentation

Test report No. PGA11285A Rev.0, dated 9 November 2018 from DBI, Hvidovre, Denmark.

Drawing No. VA911700501 dated 11 October 2017 from manufacturer.
Drawing No. VA911700501g1 dated 9 October 2017 from manufacturer.
Drawing No. VA911700501g2 dated 9 October 2017 from manufacturer.
Drawing No. VA911700501g3 dated 9 October 2017 from manufacturer.
Drawing No. VA911700501IS dated 10 October 2017 from manufacturer.
Drawing No. VE02211142 dated 18 December 2015 from manufacturer.
Drawing No. VE12064147 dated 21 March 2007 from manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

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).