

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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 GL 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-60 Window, dimension 2600 x 2300

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) 2019/1397**,
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

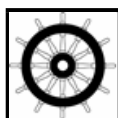
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-06-14**.

Issued at **Høvik** on **2020-06-15**

DNV GL local station:
Denmark CMC

Approval Engineer:
Marcin Tobiasz



Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
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 GL 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 Window, dimension 2600 x 2300"

composed of steel frame, incorporating a glass unit consisting of glass construction: 5 mm thick toughened glass ISO 614 (manufactured by Vetrotech Saint-Gobain) + 3 mm thick fire layer + 4 mm thick toughened glass ISO 614 + 3 mm thick fire layer + 4 mm thick toughened glass ISO 614 + 3 mm thick fire layer + 5 mm thick toughened glass ISO 614 + 10 mm air space with steel distance profile + 10 mm thick toughened glass ISO 614. Glass panes fitted in a steel frame with two vertical steel mullions welded to the frame.

Total thickness of glazing unit is 47 mm.

Steel frame is fastened to the bulkhead using M8 x 35 mm screws.

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

Application/Limitation

The window is approved for installation in steel bulkheads of class A-60. Other applications are subject to case-by-case approval.

Fire against the Contraflam glass (from the inside).

Maximum size of window :	2653 mm x 2318 mm (W x H)
Maximum clear light size:	(1100 + mm + 1100 + mm + 200 mm) X 2200 mm (W x H).
Maximum size of each window pane:	(1135 + mm + 1135 + mm + 235 mm) X 2230 mm (W x H).

Strength glass against weather side to be marked according to ISO 614 (where relevant).

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 authority in each case.

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

Type Examination documentation

Test report No. PGA11592A, Rev.0, dated 4 November 2019 from DBI, Hvidovre, Denmark.

Drawing No. VA911700601 dated 21 May 2019 from maker.

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, the MED Mark of Conformity (see first page).