

# 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-0 Window 1200 x 2000, type VA01011 (Firefighter A0)**

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) 2020/1170,**

**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**

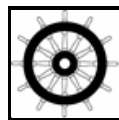
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-11-01.**

Issued at **Høvik** on **2020-11-02**

DNV GL local station:  
**Denmark CMC**

Approval Engineer:  
**Tessa Bieber**



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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 1200 x 2000, type VA01011 (Firefighter A0)"  
composed of a steel main frame incorporating a glass unit "Pyroswiss (Extra) Marine" consisting of the following, seen from the outside (exposed side):

- 8 mm thick Securit glass manufactured by Saint Gobain
- 1,5 mm thick PVB foil
- 6 mm thick Pyroswiss Clear View A-0 fire resistant safety glass manufactured by Vetrotech Saint Gobain.

The installation includes Promarine 640 supporting blocs (manufactured by Promat UK Ltd. with density 640 kg/m<sup>3</sup>), Insulfrax ceramic wool (manufactured by Unifrax I LLC with density 128 kg/m<sup>3</sup>), LTE silicone rubber edge gasket and a 30 mm x 4 mm glass press ring that is screwed to the main frame with M6 x 12 mm screws.

Total glass pane thickness is minimum 15.5 mm. The window frame is welded to the bulkhead.

For more details, see the test report and approved 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 external side only (i.e. against the 8 mm thick Securit glass).

Bulkhead area around the window to be insulated with 60 mm thick and at least 200 mm wide Rockwool Marine Firebatts 130 (manufactured by Rockwool with density 130 kg/m<sup>3</sup>). To be fastened with Ø3 steel pins and washers on the inside (stiffened side). Any other equivalent A60 insulation may also be used.

Maximum size of fire technical glazing unit: 1220 x 2020 mm (width x height).  
Maximum exposed window size: 1200 x 2000 mm (width x height).

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, use and maintenance.

## Type Examination documentation

Test report File: PG 12079 Serial No. 12083 dated 13 July 2009 from Danish Institute of Fire and Security Technology (DIFT), Copenhagen, Denmark.

Assembly drawing VA910800902 rev. 3 dated 18 May 2009 with Bill of material VA910800902b rev. 4 dated 25 May 2009, both from C.C. Jensen.

## Test carried out

Tested according to 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 manufacturer, type designation, fire technical rating and the MED Mark of Conformity (see first page).