

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)

Class A-30 Steel Frame Window RI01

Issued to

**Pilkington Automotive Finland Oy Pilkington Marine
Laitila, Finland**

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**

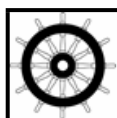
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-10-17**.

Issued at **Høvik** on **2019-10-18**

DNV GL local station:
Finland CMC

Approval Engineer:
Tessa Biever



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"Class A-30 Steel Frame Window RI01", window consisting of 2 equal glazings in a steel frame, welded to horizontal and vertical stiffeners which are connected through joint connections. The window glazings are composed of 6+6 mm laminated outer glass, clear tempered, 15 mm argon. Inner glass is 18 mm fire proof, clear tempered. Glazings are connected to the frame with steel glazing beads of 6x60 mm fixed with 48 screws (M6x30 mm). There is one strip of expanding gasket between glazing and frame. Seals are fireproof Kerafix 2000 ceramic tape and fire resistant silicone. The window frame is welded to the bulkhead.

The main part of the window frame consist of a 100x60x6 mm (horizontal) and 120x60x6 mm (vertical) steel profile with the window frame size 2665x2500 mm (WxH).

Total window thickness is 45 mm.

For details see Type Examination documentation below.

Application/Limitation

The window is approved for installation in steel bulkheads of class A-30. Other applications are subject to case-by-case approval.

Maximum size of exposed fire technical glazing unit for each glazing: 1213x2321 mm (WxH).

Restricted application: Fire against the 18 mm fire proof glass.

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 maintenance.

Type Examination documentation

Test report No. 471-14TMA-IMO dated 8 May 2014 from TÜV Eesti OÜ, Tallinn, Estonia.

Drawing No. STXT383-6000, rev. A, p.1 from the 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.