

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 the Kingdom of Norway.

This is to certify:**That the Windows and side scuttles**

with type designation(s)

Safety window, Class A-60

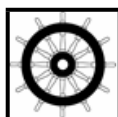
Issued to

**IMS Group AS
Akland, Norway**

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

Regulation **(EU) 2017/306,****item No. MED/3.25. SOLAS 74 as amended, Regulation II-2/9, IMO MSC/Circ.1120 and IMO 2010 FTP Code**

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

This Certificate is valid until **2022-04-04.**Issued at **Høvik** on **2017-04-05**DNV GL local station:
Kristiansand SApproval Engineer:
Fryderyk HogaNotified Body
No.: **0575**for **DNV GL AS****Vidar Dolonen
Head of Notified Body**

Product description

"Safety window, Class A-60"

constructed of a 8 mm thick thermally toughened safety glass (on exposed side) and one layer of 27 mm thick Pilkington Pyrostop 60-201 glass. A 12 mm air gap was constructed between the safety glass and the fire resistance glass.

The glass unit is fastened to an external and an internal frame with insulation between the frames. The frame is fully welded to the bulkhead.

Total window thickness is 47 mm.

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

Application/Limitation

The window is approved for use as an integrated part of fire retarding steel bulkheads of class A-60. Other applications are subject to case-by-case approval.

Max. size of exposed fire technical glazing unit: 1982 x 2230 mm (W x H)

Restricted application: fire against 8 mm toughened glass.

Hose Stream test was carried out with satisfactory results according to IMO 2010 FTP Code part 3 Appendix A.I.5.

The window has only been evaluated with respect to fire technical properties. 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. 150070-07 ver.1 dated 16 November 2016 from SP Fire Research AS, Trondheim, Norway.

Drawings No.

10040053 rev.1 dated 18 August 2016
10040054 rev.1 dated 18 August 2016
10040055 rev.1 dated 7 September 2016
10040056 rev.1 dated 7 September 2016
10040057 rev.1 dated 18 August 2016
10041157 rev.0 dated 7 October 2016
10041159 rev.0 dated 7 October 2016
all 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, the MED Mark of Conformity (see first page).