EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB0000834

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)
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) 2021/1158,**
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 **2027-03-02**.

Issued at **Høvik** on **2022-07-01**

DNV local station:
West Norway CMC

Approval Engineer:
Helge Bjørnarå

Notified Body
No.: **0575**

for **DNV AS**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

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

Total window thickness is 47 mm.

The window frame is composed of an 8 mm steel external frame, a 3 mm steel frame with glass package and an aluminium internal frame.

The external frame can be welded or bolted (M12 x 35 mm, max. c/c 156 mm) to the 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-60. Other applications are subject to case-by-case approval.

Restricted application: fire against 8 mm toughened glass (from outside)

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

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 (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. 150070-07 version 1 dated 16 November 2016 from SP, Trondheim, Norway.

Assessment report No. 150101-57 from RISE, Trondheim, Norway.
Test report No. PG 11844 dated 17 June 2008 from DBI, Hvidovre, Denmark.
Test report No. PG 11846 dated 19 June 2008 from DBI, Hvidovre, Denmark.

Drawing No. 10041159 Rev.0 dated 7 October 2016 from manufacturer.
Drawing No. 10060101 Rev.0 dated 24 June 2021 from manufacturer.
Drawing No. 10060105 Rev.0 dated 24 June 2021 from manufacturer.
Drawing No. 10060108 Rev.0 dated 24 June 2021from 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).