DNV·GL

Certificate No:
TAF00000M1

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Window and Glass Partition

with type designation(s)
IMS Safety Window H-120

Issued to
IMS Group AS
Akland, Norway

is found to comply with
DNV GL offshore standards

Application :

Approved for use as an integrated part of fire retarding bulkheads of class H-120

Maximum size of exposed fire technical glazing unit 1180 mm x 1180 mm (width x height)

Restricted application: Fire against 8 mm thermally toughened glass

Issued at **Høvik** on **2017-04-05**
This Certificate is valid until **2022-04-04**.
DNV GL local station: **Kristiansand S**

Approval Engineer: **Fryderyk Hoga**

for **DNV GL**

Marte Eknæs Edvardsen
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Product description

"IMS Safety Window H-120"
constructed of a 8 mm thick thermally toughened safety glass (on exposed side) and one layer of 27 mm thick Pilkington Pyrostop 60-201 resistance glass laminated together with three layers of 23 mm thick Pilkington Pyrostop 60-101 resistance glass. A 10 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 thickness of the window is 114 mm.

For further details see approved drawing listed below.

Application/Limitation

The window is approved for installation in steel bulkheads of class H-120. Other applications are subject to case-by-case approval.

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.

External windows to comply with ISO 3903 (Ref. Offshore Standard DNVGL-OS-C301, Ch. 2. Sec. 2).

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

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

Type Approval documentation

Tests carried out

Tested according to IMO 2010 FTP Code part 3 and the HC time-temperature curve.

Marking of product

The product is to be marked with name of manufacturer, type designation and fire technical rating.

Periodical assessment

DNV GL's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Class Programme DNVGL-CP-0338, Section 4.