

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)

Class A-0 Fire Resistant Window (SG-FS1R1-A0)

Issued to

Samgong Co., Ltd.
Busan 11, Republic of Korea

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

Regulation **(EU) 2015/559,**

Annex A.1, item No. A.1/3.25 and Annex B, Module B in the Directive SOLAS 74 as amended, Regulation II-2/9, IMO MSC/Circ.847, 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 **2021-12-02.**

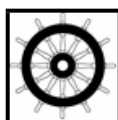
Issued at **Høvik** on **2016-12-07**

DNV GL local station:

Busan

Approval Engineer:

Synnøve Bolstad Eri



Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body



Job Id:
Certificate No: **MEDB00001U2**

Product description

"Class A-0 Fire Resistant Window (SG-FS1R1-A0)"
composed of a glass sheet unit consisting of 12 mm toughened glass, 6 mm air gap and 26 mm FS1R-A0 fire resistant glass unit, holed on place by rubber packing, Cerak wool and sealing, and mounted into a 12 mm window steel frame.

The window frame is to be welded or bolted to the bulkhead.

Total thickness of glazing unit: 44 mm.

For further details, please see drawing 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.

Fire against fire resistant glass side (inside).

Max. size of fire technical glazing unit and clear opening: 2000 x 1500 mm (W x H).

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 No. KOMERI-0402-11T961 dated 2 November 2011 from Korea Marine Equipment Research Institute (KOMERI), Busan, Korea.

Drawing No. SG-FS1R1-A0 dated 19 August 2011 by manufacturer.

Tests carried out

Tested according to IMO FTPC part 3 and in compliance with IMO 2010 FTP Code Ch. 8.

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation and fire-technical rating and Mark of Conformity (see page 1).