DNV·GL

Certificate No:
MEDB0000116

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive (EU) 2015/559, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate.
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)
SG-FSCP-A0

Issued to
Samgong Co., Ltd.
Busan, Republic of Korea

is found to comply with the requirements in the following Regulations/Standards:
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 **2021-06-15**.

Issued at **Høvik** on **2016-06-16**

for **DNV GL AS**

DNV GL local station:
Pusan

Approval Engineer:
Synnøve Bolstad Eri

Notified Body
No.: **0575**

Vidar Dolonen
Head of Notified Body

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Product description

"SG-FSCP-A0"
a rectangular window consisting of the following:

- Main frame, made of 12 mm thick steel (breadth: 75 mm), welded to the bulkhead
- Glass keeper, made of 5 mm steel, screwed to the main frame (M6L12 screws, maximum distance between screws is 100 mm)
- Glass stopper, made of 19 mm thick steel, welded to the main frame on the opposite side to the glass keeper
- Glass unit, total thickness 14 mm, fitted between the glass keeper and glass stopper. The glass unit is composed of:
    - Pressure glass, 6 mm thick, of type "Toughened" from Jeong-AM Safety Glass Co. Ltd.
    - Interlayer, 1.5 mm thick, made of polyvinyl butyral film from Kurary Co. Ltd.
    - Fire resistant glass, 8 mm thick, of type "Pyrans" from Schott.

The window is fitted with setting blocks (made from hardboard) and packing (synthetic rubber) between window unit and main frame

For further details, 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.

Restricted application: Fire against external side only (Pressure glass).

Maximum size of exposed fire technical glazing unit: 2500 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-0402-15T3967 dated 26 February 2016 from Korea Marine Equipment Research Institute (KOMERI), Busan, Korea.

Drawing no. SG-FSCP-A0-01 rev. 1 and RD—A0-B-001, both dated 27 January 2016 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 of manufacturer, type designation, fire technical rating and the MED Mark of Conformity (see page 1).