

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 Norway.

This is to certify:

That the "B" Class divisions, fire integrity

with type designation(s)
SC-305U B-15 Class ceiling panel

Issued to

Sejin Technical Industries Co., Ltd.
Yongsan-si, Gyeongsangnam-do, Republic of Korea

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2019/1397**,
item No. MED/3.11b. SOLAS 74 as amended, Regulation II-2/3.4 & II-2/9, IMO 2010 FTP Code, IMO MSC/Circ.1120 and IMO MSC.1/Circ.1581

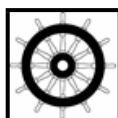
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-01-29**.

Issued at **Høvik** on **2020-01-30**

DNV GL local station:
Gimhae Station

Approval Engineer:
Marcin Tobiasz



Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005, and amended by Decision No 1/2019 dated February 22nd, 2019.

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 GL 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Product description

"SC-305U B-15 Class ceiling panel"

is a ceiling panel, composed of two layers each of a 14.7 mm thick mineral wool with nominal density of 200 kg/m³ (manufactured by KCC CORPORATION), and 0.6 mm galvanized steel sheets on the front side. The first layer of insulation is glued to the steel sheets by an adhesive of a type OCUA-970SNF (manufactured by DAI HAN POLYMER). Both layers of insulation are connected together by two lines of back-side joint per c/c 300 along the panel (each line is located about 50 mm from centre of panel).

The panels are connected together with self tapping screws Ø4.2 per c/c 250 mm. The connection is covered by profile with width of 45 mm and composed of 15.4 mm thick "Mineral Wool 200" core with nominal density of 200 kg/m³ (manufactured by KCC CORPORATION), and 1.6 mm galvanized steel sheets on the back side, which is connected with ceiling panels with self tapping screws Ø4.2 per c/c 250 mm in Zig Zag pattern.

Total panel thickness is 47 mm (30mm wall panel + 17 mm cover profile).

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

Application/Limitation

Approved for use as a horizontal fire retarding division of class B-15.

Max panel size: 2950 x 600 mm (L x W).

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity. This requirement may also be applicable for surface materials used, if required by relevant rules and regulations.

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

Type Examination documentation

Test report No. KOMERI-0402-19T2926 dated 30 August 2019 from KOMERI, Busan, Korea.

Drawing No. Sejin-SC305U-001-01 (2 pages) dated 10 June 2019 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 and USCG Approval Number if applicable (see first page).