

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)
SW-501U B-15 Class bulkhead

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

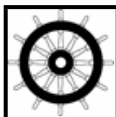
Further details of the equipment and conditions for certification are given overleaf.

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



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"SW-501U B-15 Class bulkhead"

composed of two type panels (20 and 30 mm thick) facing each other with their insulated side. Both type of panels consist of 0.6 mm thick galvanized steel sheets insulated with 15 mm thick mineral wool with nominal density of 200 kg/m³ (manufactured by KCC Corporation, Korea). The mineral wool is glued to the steel sheets with an adhesive of a type OCUA-970SNF (manufactured by DAI HAN POLYMER). Air gap between insulation layers of both panels is 18.8 mm.

The 30 mm thick panels have a rectangular shape and are connected together with self tapping screws Ø4.2 per c/c 250 mm. The short edges of 20 mm thick panels are tilted with different angles, which forms a joint of these panels. Both type of panels and are connected together with self tapping screws Ø4.2 per c/c 250 mm.

Total bulkhead thickness is 50 mm.

For further details see drawings listed under Type Examination documentation below.

Application/Limitation

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

Max panel size: 2480 x 605 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-0402-19T2925 dated 30 August 2019 from KOMERI, Busan, Korea.

Drawing No. Sejin-SW501U-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 and the MED Mark of Conformity (see first page).