

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 "A" Class divisions, fire integrity

with type designation(s)
SW-M106 A-60 Class Bulkhead panel

Issued to

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

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2018/773**,
item No. MED/3.11a. SOLAS 74 as amended, Regulation II-2/3.2 & II-2/9, IMO 2010 FTP Code, IMO MSC/Circ.1120 and IMO MSC.1/Circ.1434

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

This Certificate is valid until **2023-09-17**.

Issued at **Høvik** on **2018-09-18**

DNV GL local station:
Gimhae Station

Approval Engineer:
Krzysztof Kolakowski



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.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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-M106 A-60 Class Bulkhead panel"

is a bulkhead panel, in central part, composed of two layers each of a 46 mm thick "Mineral Wool 140" core with nominal density of 140 kg/m³ (manufactured by KCC CORPORATION), 0.4 mm perforated corrugate steel sheet in between and 0.4 mm perforated steel sheets from both sides. Panel is closed with 100 mm thick and 50 mm long "Mineral Wool 240" with nominal density of 240 kg/m³ (manufactured by KCC CORPORATION) from both ends. Panel is covered from both sides with 0.55 mm galvanized steel sheet bonded by means of adhesive.

Panels are joined by means of c-clip joint profiles made from 0.55 mm galvanized steel.

Total panel thickness: 100 mm

For further details, please see documentation listed under Type Examination documentation below.

Application/Limitation

Approved for use as non-load bearing fire retarding bulkhead of class A-60.

Max. panel size: 600 x 2480 mm (W x H)

The use of this product shall be limited to applications specifically approved by the Administration in question, see IMO 2010 FTP Code part 3, Appendix 1, items 1.12 and 1.13. The construction shall in any case not be used as part of main fire zone bulkheads and stairways enclosures on passenger ships (see also IMO MSC/Circ.1005).

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 and maintenance.

Type Examination documentation

Test report No. KOMERI-0402-18T0181 dated 20 July 2018 from Korea Marine Equipment Research Institute, Busan, Republic of Korea.

Drawing No. SEJIN-SW-M106-001-01 (2 sheets) dated 10 January 2018 from Sejin Technical Industries Co., Ltd.

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).