

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00006V1

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 AS under the authority of the Government of Norway.

This is to certify:

That the C class Divisions

with type designation(s)
SEJIN SHB-20 Aluminium honeycomb panel

Issued to

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

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

Regulation (EU) 2020/1170,
item No. MED/3.64. SOLAS 74 as amended, Regulation II-2/3.10,3.33 & 2/9 and IMO 2010 FTP Code and IMO
Res. MSC/Circ.1120

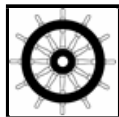
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2026-05-18**.

Issued at **Høvik** on **2021-05-19**

DNV local station:
Gimhae Station

Approval Engineer:
Marcin Tobiasz



Notified Body
No.: **0575**

for **DNV AS**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

"SEJIN SHB-20 Aluminium honeycomb panel"

Aluminium honeycomb panel composed of 16.4 mm thick aluminium honeycomb core of cell (1/4" x 0.05 mm) manufactured by Sejin Technical Industries bonded on both sides with 1 mm aluminium sheet and 0.8 mm thick HPL (TOP Tone T-400G) manufactured by Yushin Melamine Mfg. Co., Ltd. The aluminium plates are glued to the honeycomb insulation core with polyurethane adhesive of type OCUA-970SNF manufactured by Daehan Polymer.

Nominal thickness of total product: 20 – 20.5 mm

Nominal density of honeycomb insulation core: 59 kg/m³

Application/Limitation

Approved as non-combustible C-class division. The panel surface is approved as a low flame spread material, not generating excessive quantities of smoke nor toxic products in fire.

Approved colour: black

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.

Additional surface materials have to be approved for low flame-spread characteristics and smoke and toxicity (IMO 2010 FTP Code, Annex 1, Parts 2 and 5). Total volume of combustible material shall satisfy SOLAS Chapter II-2, Reg 5.3.2.3.

Any adhesive used other than the one used during testing, has to be tested for low flame spread characteristics according to IMO 2010 FTP Code Part 5.

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

Type Examination documentation

Tests carried out

Tested according to IMO 2010 FTP Code Part 1, Part 2 and Part 5.

Marking of product

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