EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB000083K

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 A & B Class divisions fire integrity: A class divisions.

with type designation(s)
BIP W-100R

Issued to
BIP Industries Co., Ltd. Goseong
Goseong-gun, Gyeongsangnam-do, Korea, Republic of

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2022/1157,**
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.1434,1435; IMO MSC.1/Circ.1616, 1621

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

This Certificate is valid until **2027-09-01**.

Issued at **Høvik** on **2022-09-02**

DNV local station:
Gimhae Station

Approval Engineer:
Kristin Grønnæss

Notified Body
No.: **0575**

for **DNV AS**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"BIP W-100R"
consists of bulkhead panels insulated with 98.5 mm thick Mineral Wool (140 kg/m^3, manufactured by KCC Corporation). Along the vertical sides of the panel, Mineral Wool (240 kg/m^3, manufactured by KCC Corporation) is fitted from the edge and 50 mm into the panel. The insulation is fixed to 0.6 mm thick steel sheets by means of adhesive.

Total panel thickness is 100 mm.

The panels are joined together with cap profiles on both sides and fitted to 1.2 mm thick steel profiles at the bottom and top. The top profile is fitted with 25 mm Mineral Wool (140 kg/m^3, manufactured by KCC Corporation).

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

Application/Limitation

Approved for use as a non-load bearing vertical fire retarding division of class A-60.

Max. panel size: 600 x 3000 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 Annex 1, Part 3, 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, use and maintenance.

Type Examination documentation

Test report No. KOMERI-0402-16T2974 dated 9 November 2016 from KOMERI, Busan, Korea.

Drawing No. F2016-W100R-R0 dated 26 September 2016 from manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, MED Mark of Conformity and USCG approval if applicable (see first page).