



# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:  
**MEDB0000514**  
Revision No:  
**2**

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: B class divisions.**

with type designation(s)  
**B-15 Class Bulkhead of type: BIP W-E80R**

issued to

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

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

Regulation (EU) 2023/1667,

**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**

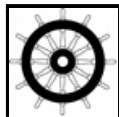
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2029-08-29**.

Issued at **Høvik** on **2024-08-30**

DNV local unit:  
**Gimhae Station**

Approval Engineer:  
**Marta Kropiwnicka**



Notified Body  
No.: **0575**



for **DNV AS**

Digitally Signed By:  
**Christine Mydlak-Röder**  
Location: **DNV Høvik, Norway**  
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**Mydlak-Röder, Christine**  
**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 1/2023 dated August 21st, 2023.



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

"B-15 Class Bulkhead of type: BIP W-E80R"

composed of 0.6 mm galvanized steel sheets on each side of a 48.5 mm thick mineral wool core (manufactured by KCC Corporation) of density 140 kg/m<sup>3</sup> and adhesive type OCUA-1000RC manufactured by Dae-Han Polymer or BNUR-1000 manufactured by BN Chemical is used for the fixation of insulation and steel sheets. A 0.6 mm thick cable conduit channel (manufactured by Seah Coated Metal) of 80 mm x 22 mm x 2480 mm (W x H x L) can be fitted in the middle of the panel.

The panels are joined together with a "Removable cap profile".

Total bulkhead panel thickness is 50 mm.

For further details see drawing(s) listed under Type Examination documentation.

## Application/Limitation

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

Max panel size: 550 mm x 2480 mm (W x H)

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-0402-19T0211-1 dated 05 April 2019 from KOMERI, Busan, Korea.

Test report No. KOMERI-0402-24T1788(E) dated 06 August 2024 from KOMERI, Busan, Korea.

Drawing No. F2019-WE80R-RO (8 pages) dated 04 January 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, MED Mark of Conformity and USCG approval number if applicable (see first page).