

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)

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

Issued to

BIP Industries Co., Ltd.

Yangsan-si, Gyeongsangnam-do, Republic of Korea

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

Regulation **(EU) 2018/773,**

item No. MED/3.11b. SOLAS 74 as amended, Regulation II-2.3.4 & II-2/9 and IMO 2010 FTP Code

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

This Certificate is valid until **2024-07-01**.

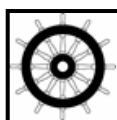
Issued at **Høvik** on **2019-07-02**

DNV GL local station:

Gimhae Station

Approval Engineer:

Grzegorz Wolski



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"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 140kg/m³ and adhesive type OCUA-1000RC manufactured by Dae-Han Polymer Co., Ltd. or BNUR-1000 manufactured by BN Chemical Co., Ltd. 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 the Type Examination documentation below.

Application/Limitation

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

Max panel size: 550 x 2480 mm (Width x Height).

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-0402-19T0211-1 dated 05 April 2019 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 or packing is to be marked with name and address of manufacturer, type designation, firetechnical rating, the MED Mark of Conformity and USCG approval if applicable.