

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)
BIP W-162

Issued to

BIP Industries Co., Ltd.
Yongsan-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

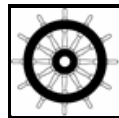
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-06-03**.

Issued at **Høvik** on **2019-06-04**

DNV GL local station:
Gimhae Station

Approval Engineer:
Tessa Bieber



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Job Id: **344.1-004383-4**
Certificate No: **MEDB000050N**

Product description

"BIP W-162"

Bulkhead composed of panels faced on exposed side with 0.6 mm steel sheets and insulated with 2 x 15 mm mineral wool of density 200 kg/m³ (manufactured by Kumgang Korea Chemical Co., Ltd.). The mineral wool is glued to the steel sheets with adhesive OUCA-1000RC manufactured by Dae Han Polymer IND., Co., Korea. The panels are connected by screws through 52.4 mm wide and 1.2 mm thick O'Mega steel profiles, insulated with 15 mm mineral wool of density 200 kg/m³.

Total thickness of panel: 30 mm.

For details of arrangement, see drawings mentioned under Type Examination documentation.

Application/Limitation

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

Max panel size is 600 x 2410 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-0402-12T579 dated 05 September 2012 from Korea Marine Equipment Research Institute, Korea.

Drawing No. W-162-B15-R0 dated 6 March 2012 from the 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).