DNV·GL

Certificate No:
MEDB000043W

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-102S: B-15 Class Bulkhead

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 **2023-08-22**.

Issued at **Høvik** on **2018-08-23**

DNV GL local station:
Gimhae Station

Approval Engineer:
Karolina Kusmider

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

NORWEGIAN ACCREDITATION PROD 019

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Product description
"BIP W-102S: B-15 Class Bulkhead"

Composed of panels comprised of approx. 50 mm thick mineral wool (manufactured by KCC Corporation, Korea) of density 140 kg/m^3 and faced on both sides with 0.6 mm thick steel sheets and urethane adhesive type OCUA-1000RC or BNUR-1000 is used for the fixation of insulation material. Vertical joint edges of the panel are reinforced with 0.6 mm thick steel support channel.

The panels are joined together by means of spline profile joints. Total panel thickness is 50 mm. Each product is to be supplied with its manual for installation and maintenance.

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

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

Max. panel width is 600 mm.

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. A2012-0930, dated 20 February 2013 from Fire Insurers Laboratories of Korea (FILK), Korea.

Drawing No. F2012-W102S-RO (5 pages) dated 01 November 2012 from manufacturer.

Tests carried out
Tested according to IMO FTPC Part 3 and in compliance with IMO 2010 FTP Code Ch. 8.

Marking of product
The product or packing 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 page 1).