

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.: MEDB00000TN Revision No: 3

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) BIP C-511: B-0 Class Continuous Ceiling

## 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 2029-05-19.

Issued at Høvik on 2024-05-20

DNV local unit: Gimhae Station

Approval Engineer: Karolina Kusmider



Notified Body No.: 0575

for DNV AS

Digitally Signed By: Tessa Biever Location: DNV Høvik, Norway on behalf of

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

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

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.





Job ID: 344 Certificate no.: MEI Revision No: 3

1400 mm (BIP C-511) 325 mm (BIP C-511)

1200 mm (BIP C-511)

312.5 mm (BIP C-511)

344.1-004222-6 MEDB00000TN

## **Product description**

"BIP C-511: B-0 Class Continuous Ceiling"

Composed of panels suspended below the structural deck, panel cassettes insulated with 25 mm thick mineral wool (manufactured by KCC Corporation, Korea) of density of 60 kg/m<sup>3</sup>, covered with 0.6 mm thick galvanized steel sheet or perforated galvanized steel (max 5% porosity of Ø1.8 mm) on exposed side.

Alternative insulation: 25 mm thick mineral wool with density 80 kg/m<sup>3</sup>, manufactured by KCC Corporation, Korea.

The panels are connected to each other, screwed to main runner and fastened to the deck by hanger sets. The panels can be connected to each other by Omega shaped connection profile and attached to the deck by support channel.

Total ceiling thickness: 25 mm

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

## **Application/Limitation**

Approved for use as a horizontal fire retarding division of class B-0.

Maximum panel size: 300 mm x 2240 mm (W x L)

In the longitudinal direction, the following measures applies:

- Max. distance between hangers:
- Max. distance from bulkhead to the first hanger:
- Max. distance from a connection profile to the nearest hanger: 325 mm (BIP C-511)

In the transverse direction, the following measures applies:

- Max. distance between hangers:
- Max. distance from bulkhead to the first hanger:

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 use.

#### Type Examination documentation

Test Report No. A2012-1451 dated 28 May 2013 from "FILK", Korea. Test Report No. AK2015-0627 dated 16 November 2015 from "FILK", Korea.

Drawing No. F2015-C511-R0 (8 sheets) dated 16 September 2015 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).