

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB0000051
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 GL 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-514 / B-15 Class Continuous ceiling

Issued to

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

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

Regulation **(EU) 2020/1170,**

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

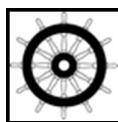
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-11-18.**

Issued at **Høvik** on **2020-11-10**

DNV GL local station:
Gimhae Station

Approval Engineer:
Marcin Tobiasz



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, and amended by Decision No 1/2019 dated February 22nd, 2019.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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: **344.1-002522-22**
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Product description

"BIP C-514 / B-15 Class Continuous ceiling"

composed of panels suspended below the structural deck. From the exposed side the panels consist of 0.6 mm thick perforated or non-perforated steel sheet, "Non-woven fabric" (manufactured by Dae Kyong Chemical Co. Ltd.) and 25 mm thick mineral wool of density 60 kg/m³ (manufactured by KCC Corporation, Korea). In addition, 50 mm thick mineral wool of density 80 kg/m³ (manufactured by KCC Corporation, Korea) covers the panels on the unexposed side.

The ceiling panels may incorporate ventilation unit (ø200 mm) and light fixture (1288 mm x 275 mm), fully covered by 30 mm thick mineral wool of density 180 kg/m³ on unexposed side.

The cross runners are fastened to deck with P713 Hanger sets.

Total ceiling panel thickness is 75 mm.

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

Application/Limitation

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

Max. panel size is 300 mm x 2190 mm (W x L).

In the longitudinal direction, the following measures apply:

- Maximum distance between main runners: 1400 mm
- Maximum distance between hanger rods: 2500 mm
- Maximum distance from bulkhead to the nearest main runner: 300 mm

In the transverse direction, the following measures apply:

- Maximum distance between cross runners: 2500 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. AK2014-0492, dated 6 October 2014 from FILK, Korea.

Drawings No. F2014-C514F-R1 (9 pages), dated 18 July 2014 from the manufacturer.

Test Report No. AK2014-0491, dated 6 October 2014 from FILK, Korea.

Drawings No. F2014-C514-R5 (7 pages), dated 18 July 2014 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).