DNV·GL

Certificate No:
MEDB00006YC

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 A & B Class divisions fire integrity: B class divisions.

with type designation(s)
BIP C-162 B-15 Class Continuous Ceiling with Electrical Fittings

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 **2025-09-06**.
Issued at **Høvik** on **2020-09-07**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

NORWEGIAN ACCREDITATION PROD 019

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.

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Product description

"BIP C-162 w/lighting, speaker: B-15 Class"
Ceiling 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/m^3 (manufactured by KCC Corporation). The panels are connected by screws with 1 mm thick omega profile, insulated with 15 mm mineral wool of density 200 kg/m^3. The ceiling is suspended below a structural deck by means of thread rods and t-carriers.

Total ceiling thickness: 30 mm

The ceiling panels may incorporate a speaker unit (max. weight 3.8 kg) and two sizes of light units (max. weight 1.2 kg and 16.5 kg). Insulation boxes consisting of 30 mm thick mineral wool (same as above) is fitted on top of the speaker and light units, at a distance of min. 30 mm from the units.

Max. cut-out speaker unit: Ø155 mm
Max. cut-out light units: Ø155 mm and 265 x 1390 mm (w x h)

For details of arrangement, see drawings in test report mentioned under Type Examination documentation below.

Application/Limitation

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

Max. panel size: 600 mm x 2420 mm (w x h)
Max. distance between T-carriers: 2420 mm
Max. distance between Hanger sets along T-carriers: 900 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. KOMERI-0402-19T3670(E)-A dated 10 February 2020 from KOMERI, Busan, Korea.
Test Report No. AK2014-0556 dated 05 November 2014 from F.I.L.K., Gyeonggi-do, Korea.

Drawing No. F2014-C162F-R0 dated 03 September 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).