



Marine &amp; Offshore

Certificate number: 38913/B0 BV

File number: ACI1000/177/118

Product code: 5120H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**BIP INDUSTRIES CO., LTD.**

Gyeongsangnam-do - KOREA (REPUBLIC OF)

*for the type of product*

**B0 CLASS CEILINGS**

B-0 Class Continuous Ceiling - Type "BIP C-161"

### Requirements:

Bureau Veritas Rules for the Classification of Steel Ships, Part C, Chapter 4  
SOLAS 74 Convention, as amended Regulation II-2/3.4.4  
IMO Resolution MSC.307(88) - (2010 FTP Code)

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 12 Dec 2024**

**For Bureau Veritas Marine & Offshore,**

At BV PUSAN, on 12 Dec 2019,

Chang-Uk HONG



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site [www.veristar.com](http://www.veristar.com). Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 2 page(s)

## **THE SCHEDULE OF APPROVAL**

### **1. PRODUCT DESCRIPTION:**

#### **B-0 Class Continuous Ceilings - Type "BIP C-161"**

Composed of steel cassettes suspended below the structural deck by means of profiles and hangers. The 30 mm thick cassettes are composed of 15 mm thick "**mineral wool #200**" (nominal density 200 kg/m<sup>3</sup>, manufactured by KCC Corporation, Korea) supported by 0.6 mm thick steel sheet.

Ceiling panels are joined together longitudinal edges by means of T-carrier bolted to panel's steel sheet. T-carrier together with a hanger set form the hanging system.

Minimum distance between steel deck to ceiling:	300 mm
Maximum span of suspender for breadth:	900 mm
Maximum width of a panel:	600 mm
Total thickness of bulkhead:	30 mm

### **2. DOCUMENTS AND DRAWINGS:**

As per the Manufacturer's drawings N° F2014-C161-R0, Rev.ORI. dated 27/01/2014.

### **3. TEST REPORTS:**

Test report N° AK2014-0068R dated 11/04/2014 (test date: 26/02/2014), as per IMO 2010 FTP Code Annex 1 Part 3, from FILK, Korea.

### **4. APPLICATION / LIMITATION:**

- 4.1 - The following components shall comply with the requirements of the relevant Bureau Veritas rules and be type approved:
- the insulating material, "**mineral wool #200**" (nominal density 200 kg/m<sup>3</sup>),
  - any added finish surface material(s).
- 4.2 - The fitting aboard to be the same as used for the test.

### **5. PRODUCTION SURVEY REQUIREMENTS :**

- 5.1 - The **B-0 Class Continuous Ceilings - Type "BIP C-161"** are to be supplied by **BIP INDUSTRIES Co., Ltd.** in compliance with the type described in this certificate.
- 5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.
- 5.3 - **BIP INDUSTRIES Co., Ltd.** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

### **6. MARKING OF PRODUCT :**

The product or packing is to be marked with Manufacturer name, type designation and fire-technical rating.

### **7. OTHERS :**

- 7.1 - It is **BIP INDUSTRIES Co., Ltd.**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.
- 7.2 - This Certificate supersedes the Type Approval Certificate N° 38913/A0 BV issued on 10/12/2014 by the Society.

\*\*\* END OF CERTIFICATE \*\*\*