



Marine &amp; Offshore

Certificate number: 59328/B0 BV

File number: ACI 1000/177/124

Product code: 5110H

*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*

**B15 CLASS CEILINGS**

B-15 Class Continuous Ceilings

Type "BIP C-514"

### Requirements:

Bureau Veritas Rules for the Classification of Steel Ships Part C, Chapter 4

SOLAS 74 convention as amended, Regulations II-2/9, II-2/3.4

IMO Res. MSC.307(88) -(2010 FTP Code)-

IMO MSC/Circ.1120 and IMO MSC.1/Circ.1581

*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: 14 Jan 2030**

**For Bureau Veritas Marine & Offshore,**

At BV PUSAN, on 14 Jan 2025,

Dong-hyok SHIN

***This certificate was created electronically and is valid without signature***



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. 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.

The electronic version is available at: <http://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=9j9n4lehcy>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## **THE SCHEDULE OF APPROVAL**

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

#### **B-15 Class Continuous Ceilings - Type "BIP C-514"**

Composed of 0.6 mm thick galvanized steel cassette, filled with mineral wool of 60 kg/m<sup>3</sup> density, manufactured by KCC Co., Ltd., Korea (thickness 25 mm, 275 mm wide) and an additional 50 mm thick over-laying mineral wool of 80 kg/m<sup>3</sup> density, manufactured by KCC Co., Ltd., Korea. The steel sheet on the exposed side was with sound-absorbing holes (Ø 1.8 mm, 10 mm spacing).

The cassettes are suspended to the structural deck with P713 hanger sets fastened to the P703N cross runners with the P701N main runners.

At junction, the exposed side is fitted with a P704 connection profile.

Tested size of ceiling panel : 300 mm wide, 2290 mm long (practically max. 5000 mm maybe used under responsibility of manufacturer's engineering specification)

Maximum span of main runners : 1400 mm

Maximum span of hanger rods : 2500 mm

Maximum span of cross runners : 2500 mm

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

As per the Manufacturer's drawings N° F2014-C514-R5 dated July 18, 2014.

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

Test report N° AK2014-0491 issued on Oct. 6, 2014 (test date: Aug. 20, 2014), as per IMO 2010 FTP Code Annex 1, Part 3, from F.I.L.K., Korea.

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

4.1 - The fitting aboard to be the same as used for the test.

4.2 - Approval is also valid for non-perforated or less perforated steel sheet without further testing.

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

5.1 - The "BIP C-514" 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.

5.4 - For information, **BIP Industries Co., Ltd.** has declared to Bureau Veritas the following production site(s):

**BIP Industries Co., Ltd.  
67, Baedungongdan-gil,  
Heohwa-myeon, Goseong-gun  
Gyeongsangnam-do  
KOREA (REPUBLIC OF)**

5.5 - The following components have to be covered by a valid type approval certificate, issued by the Society.

- the insulating materials "**mineral wool #60 & #80**"
- any added finish surface material(s).

### **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°59328/A0 BV issued on 14/01/2020 by the Society.

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