



Marine &amp; Offshore

Certificate number: 23215/C0 BV

File number: AC11000/177/098

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. GOSEONG**

Gyeongsangnam-do - KOREA (REPUBLIC OF)

*for the type of product*

**B0 CLASS CEILINGS**

B-0 Class Continuous Ceiling with B-0 Class Access Hatch, type "BIP AH25"

### 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.61(67)-(FTP Code) with IMO Res. MSC.307(88) (2010 FTP Code) article 8

IMO MSC/Circ.1120

*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 is a renewal of certificate N° 23215/B0 BV expiring on 14/03/2021*

**This certificate will expire on: 14 Mar 2026**

**For Bureau Veritas Marine & Offshore,**

At BV PUSAN, on 15 Feb 2021,

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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This certificate consists of 3 page(s)

## **THE SCHEDULE OF APPROVAL**

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

#### **B-0 Class Continuous Ceiling with B-0 Class Access Hatch, type "BIP AH25"**

The 25 mm B-0 Class continuous ceiling is composed of steel cassettes suspended below the structural deck by means of hangers. A panel cassette consists of "**Mineral Wool**" (nominal density 60 kg/m<sup>3</sup>; manufactured by KCC Corporation, Korea) laid on 0.6 mm thick galvanized steel sheet.

Ceiling panels are joined together longitudinal edges by means of T-carrier bolted to panels steel sheet. T-carrier together with a hanger set form the hanging system. Maximum distance between hanger sets: 1200 mm

**Optional:** When perforated galvanized steel cassette is used, fabric membrane ("**Non-Woven Fabric**" manufactured by DAE KYOUNG CHEMICAL CO., LTD.) is laid between steel sheet and mineral wool board.

Maximum length of panels: 2350 mm (practically max.3000 mm maybe produced under responsibility of manufacturer's engineering specification)

Maximum width of panels: 300 mm

Total thickness of panels: 25 mm

The 0.6 mm thick piano hinged hatches are fixed on a 1.2 mm thick Z-profile steel frame (20x31x15 mm):

	Hatch 1	Hatch 2
Hatch dimensions (mm)	543x545	243x245
Frame dimensions (mm)	590x590	290x290
Ceiling panel cutting size (mm)	560x560	260x260
Equipment	two push button locks with latch	push button lock with latch

The min. distance between the underdeck plating and the upper edge of the junction profiles between ceiling panels is 100 mm.

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

As per the Manufacturer's drawings N° ACCESS HATCH-AH25-R0 dated 10/05/2010 (7 sheets).

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

Test report N° 2010-0258 dated 15/06/2010, as per IMO FTP Code Annex 1 Part 3 [testing standard: IMO Resolution A.754(18)], from FILK, Korea.

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

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

4.2 - The following components shall comply with the requirements of the relevant Bureau Veritas rules and be type approved:

- the insulating material "**Mineral Wool**" (nominal density 60 kg/m<sup>3</sup>),
- any added finish surface material(s).

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

5.1 - The **B-0 Class Continuous Ceiling with B-0 Class Access Hatch, type "BIP AH25"** is to be supplied by **BIP INDUSTRIES Co., Ltd. (Goseong)** 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.(Goseong)** 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. (Goseong)**'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° 23215/B0 BV issued on 14/03/2016 by the Society.

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