



## Confirmation of Product Type Approval

**Company Name:** BIP INDUSTRIES CO., LTD.GOSEONG

**Address:** 67, BAEDUNGONGDAN-GILHOEHWA-MYEON GYEONGSANGNAM-DO Korea, Republic of

**Product:** Fire Protection Bulkhead

**Model(s):** BIP W-102SH

**Endorsements:**

<b>Certificate Type</b>	<b>Certificate Number</b>	<b>Issue Date</b>	<b>Expiry Date</b>
Product Design Assessment (PDA)	22-2261847-PDA	17-JUN-2022	16-JUN-2027
Manufacturing Assessment (MA)	20-4416841	07-OCT-2020	06-OCT-2025
Product Quality Assurance (PQA)	NA	NA	NA

### **Tier**

3 - Type Approved, unit certification not required

### **Intended Service**

For use on Ship and Offshore Installation

### **Description**

B-15 Class Fire Resistant Bulkhead

- Consisted of a KCC mineral wool core having a nominal density of 140kg/m<sup>3</sup> bonded to 0.6 mm galvanized steel sheets on both sides with an adhesive

- The panels are connected with a "Spline Profile Joint"

- Total panel thickness is 50 mm

### **Ratings**

"B-15" Class Division

Sound Transmission Coefficient (STC): 36 dB,  $R_w = 36(-1 : -3)$  dB

### **Service Restrictions**

-. Unit Certification is not required for this product.

-. If the manufacturer or purchaser requests an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

-. The scope of Type Approval is to comply with MSC.1/Circ.1221 dated 11 December 2006.

**Comments**

- The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
- Our Approval is based on that the above material has been tested and certified by Fire Insurers Laboratories of Korea (FILK), Test Report No. AK2022-0124 dated 24 March 2022 and Korea Marine Equipment Research Institute (KOMERI), Test Report No. KOMERI-0601-21T1551(E) dated 24 May 2021.
- Unless specially directed by Administration, this approval is not to be construed as a substitute for Flag Administration's approval for the purpose of SOLAS (2020 Consolidated Edition) as amended.
- This certificate may not be used for EU and US flagged vessels (MED and/or USCG have their own specific/requirements).

**Notes, Drawings and Documentation**

Drawing No. F2021-W102SH-R1, Fire Protection Test Specimen for BIP W-102SH, Revision: R1

Drawing No. AK2022-0124, Fire Insurers Laboratories of Korea (FILK) Test Report for BIP W-102SH dated 24 March 2022, Revision: -

Drawing No. KOMERI-0601-21T1551(E), Korea Marine Equipment Research Institute (KOMERI) Test Report for BIP W-102SH dated 24 May 2021, Revision: -

Drawing No. 10306103, ISO 9001:2015 by LR Quality Assurance, Revision: -

Drawing No. SAS F174024, LR Certificate for KCC Mineral Wool, Revision: -

Drawing No. MEDB00004WU, DNV-GL Certificate for BNUR-1000, Revision: -

Drawing No. -, Mill Test Certificate for Galvanized Coil, Revision: -

Drawing No. KOMERI-0402-22T0179(E), KOMERI Test Report for OCUA-100RC dated 22 February 2022, Revision: -

**Term of Validity**

This Product Design Assessment (PDA) Certificate remains valid until 16/Jun/2027 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

**ABS Rules**

- 2022 Marine Vessel Rules: 1-1-4/7.7, 1-1-A3, 1-1-A4.
- 2022 Mobile Offshore Unit Rules: 1-1-4/9.7, 1-1-A2, 1-1-A3.

**International Standards**

- IMO Resolution MSC.307(88) adopted on 2010, IMO FTP Code 2010 (2012 Edition), Annex 1 Part 3, in conjunction with SOLAS (2020 Consolidated Edition), as amended.
- IMO MSC.1/Circ.1319 (11-Jun-2009)
- ISO 10140-2:2021 (Acoustics - Laboratory Measurement of Sound Insulation of Building Elements)
- ISO 717-1:2020 (Acoustics - Rating of Sound Insulation in Buildings and of Building Elements)

- ASTM E 413:2022 (Classification for Rating Sound Insulation)

**EU-MED Standards**

NA

**National Standards**

NA

**Government Standards**

NA

**Other Standards**

NA



A handwritten signature in blue ink, appearing to read 'Joseph W. ...'.

Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 22-Nov-2022 1:27

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.