



## 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 WA-402S BIP WA-451S

<b>Certificate Type</b>	<b>Certificate Number</b>	<b>Issue Date</b>	<b>Expiry Date</b>
Product Design Assessment (PDA)	19-1869362-1-PDA	10-AUG-2020	10-JUN-2024
Manufacturing Assessment (MA)	20-4416841	07-OCT-2020	06-OCT-2025
Product Quality Assurance (PQA)	NA	NA	NA

### **Tier**

2

### **Intended Service**

For use on Ships and Offshore Installations.

### **Description**

1. BIP WA-402S:

B-15 Class Fire Resistant Bulkhead,

Thickness 0.6 mm Aluminum sheet on both sides,

Insulation (Mineral wool, Nominal density: 140 kg/m<sup>3</sup>, Nominal thickness: 50 mm)

Total panel thickness: 50 mm,

The panels are joined together with spline profile.

2. BIP WA-451S:

B-0 Class Fire Resistant Bulkhead,

Thickness 0.6 mm Aluminum sheet on both sides,

Insulation (Mineral wool, Nominal density: 140 kg/m<sup>3</sup>, Nominal thickness: 25 mm)

Total panel thickness: 25 mm,

The panels are joined together with spline profile.

### **Ratings**

1. BIP WA-402S: B-15 Class Fire Resistant Bulkhead
2. BIP WA-451S: B-0 Class Fire Resistant Bulkhead

### **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.
- The B Class Bulkhead cannot be used as a partition between the following spaces:
  - i) Cabin to Cabin
  - ii) Mess rooms, recreation rooms, public spaces and entertainment areas to cabins and hospitals
  - iii) Corridor to Cabin
  - iv) Cabin to Cabin with communicating door in the accommodation area on ships covered by the IMO Code on Noise (IMO Resolution MSC.337(91)) since its Weighted Sound Reduction Index (Rw) has not been laboratory tested in accordance with ISO 10140-2:2010.

### **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 materials have been tested and certified by Fire Insurers Laboratories of Korea (FILK), Report Nos.: 2009-0283 dated 21 July 2009 and 2009-0282 dated 21 July 2009.
- 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 (Consolidated Edition 2014), 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. 14-BK500556-1-PDA, ABS PDA Certificate, Revision: -, Pages: 1
- Drawing No. SEO0932938, ISO 9001:2015 by LRQA (Korea) Ltd., Revision: -, Pages: 1
- Drawing No. F2009-WA402S-R0, Drawing for BIP WA-402S (1/5~5/5), Revision: ORI, Pages: 1
- Drawing No. 2009-0283 dated 21 July 2009, FILK Test Report, Revision: -, Pages: 1
- Drawing No. F2009-WA451S-R0, Drawing for BIP WA-451S (1/5~5/5), Revision: ORI, Pages: 1
- Drawing No. 2009-0282 dated 21 July 2009, FILK Test Report, Revision: -, Pages: 1
- Drawing No. 10277215, ISO 9001:2015, Revision: -, Pages: 1

### **Term of Validity**

This Product Design Assessment (PDA) Certificate remains valid until 10/Jun/2024 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**

- 2020 Marine Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4
- 2020 Offshore Units and Structures 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 (Consolidated Edition 2014), as amended.

**EU-MED Standards**

NA

**National Standards**

NA

**Government Standards**

NA

**Other Standards**

NA



A handwritten signature in blue ink, appearing to read 'James W. ...', is written over the printed name.

Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 13-Oct-2020 2:17

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.