



Marine & Offshore

Certificate number: 57042/B0 BV

File number: ACI 1000/177/123

Product code: 5030H

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.

Gyeongangnam-do - KOREA (REPUBLIC OF)

for the type of product

B15 CLASS BULKHEADS

B-15 Class Bulkhead Panels

Type "BIP W-302SE"

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 Resolution 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 is a renewal of certificate N° 57042/A0 BV expiring on 16/08/2024

This certificate will expire on: 16 Aug 2029

For Bureau Veritas Marine & Offshore,

At BV PUSAN, on 01 Jul 2024,

Won-jun JANG

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.veristarp.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=mc2vfmiiet>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

B-15 Class Bulkhead Panels - Type "BIP W-302SE"

Composed of panels consisting in two x (0.6 mm thick galvanized + 0.4 mm perforated steel sheets) fitted with two mineral wool boards (density 140 kg/m³, manufactured by KCC Co., Ltd. Korea) and air-gap in-between the mineral wool boards (5 mm depth).

Vertical edges of panel are reinforced with 50 mm thick x 50 mm width mineral wool boards (density 240 kg/m³, manufactured by KCC Co., Ltd. Korea).

The mineral wool boards are glued to the steel sheets with adhesive "OCUA-1000RC" (manufactured by DAI HAN POLYMER Ind. Co., Ltd., maximal application rate: 200 g/m²).

Alternative glue: "BNUR-1000" (maximal application rate: 200 g/m²; manufactured by BN Steel Chemical Co., Ltd.).

The panels are jointed each other by means of 0.6 mm thick removable cap profiles.

Maximum width of panel: 550 mm

Total thickness of panel: 50 mm

2. DOCUMENTS AND DRAWINGS :

As per the Manufacturer's drawing N° F2014-W302SE-R0, rev.ORI. dated Jan. 29, 2014.

3. TEST REPORTS :

Test report N° AK2014-0070 issued on Apr. 11, 2014 (test date: Feb. 28, 2014) as per IMO 2010 FTP Code, Annex 1, Part 3 from FILK, Korea.

4. APPLICATION / LIMITATION :

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

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The **B-15 Class Bulkheads - Type "BIP W-302SE"** 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
Gyeongsangnam-do, Gosung-gun
KOREA (REPUBLIC OF)

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

- the insulating material "**mineral wool**" (nominal densities 140 kg/m³ and 240 kg/m³),
- the adhesive materials "**OCUA-1000RC**" and "**BNUR-1000**",
- 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° 57042/A0 BV issued on 16/08/2019 by the Society.

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