

Type Approval Certificate



[Fire Protection Bulkhead]

Initial Approval 5th April, 2016
Manufacturer BIP Industries Co., Ltd.
 67, Baedungongdan-gil, Hoehwa-myeon, Goseong-gun, Gyeongsangnam-do, Rep. of Korea
Product Description Brand : BIP W-102SN
 - Grade : B-15 Class

See "Appendix 1"

Approval Condition See "Appendix 1"

THIS IS TO CERTIFY that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows.

Pt.8, Ch.1 of the Rules for Classification of Steel Ships, IMO 2010 FTP Code - Annex 1 Part 3 and Res.307(88).

This Certificate is valid until 4th April, 2026

Issued at Tongyeong, Korea on 8th January, 2021



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication of the certificate can be confirmed from "<http://e-cert.krs.co.kr>" by using the tracking No(ME21000301697) and certificate No.(TYG00745-FP129).



KOREAN REGISTER

*General Manager of
Tongyeong Branch Office*

- Note :**
1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.
 2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.
 3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.
 4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.

Product Description and/or Approval Condition

Date of Issue : 8th January, 2021

1. Product Descriptions

- 1) The BIP W-102SN composed of two layers of mineral wool (manufactured by KCC Corporation) of thickness 23.5mm (density 140 kg/m³) divided into air space of 3 mm between the layers, faced on both sides with 0.6 mm steel sheet and urethane adhesive manufactured by Dae Han polymer Co., Ltd. and BN Chemical Co., Ltd is used for the fixation of insulation material .
- 2) Vertical joint edges of the panel are reinforced with 0.6 mm thick galvanized steel support channel and filled with 50 mm width mineral wool (manufactured by KCC Corporation) density 140 kg/m³.
- 3) The panels are connected with a spline joint profile (3 mm x 30 mm) and the mineral wool insulation (140 kg/m³) is used around the joint of the panels.
- 4) Max. panel size : 600 mm x 2480 mm (W x H)
- 5) Total thickness of bulkhead : 50 mm
- 6) Panels secured by along edges by screwing within 2.3mm thick steel channel frame system.

2. Approved Drawings : No. F2013-W102SN-R0 (1/6 ~ 6/6) dated on November 11th, 2013.

3. Approval Conditions

- 1) This approval is granted on the basis of the test report no. AK2013-0418 dated on February 3th, 2014 issued by Fire Insurers Laboratories of Korea (FILK).
- 2) The surface materials, if applied, shall have Type Approval Certificate by the Society.
- 3) In case where the panel is penetrated to incorporate light fixture and similar devices, arrangement shall be tested to ensure that the fire resistance is not impaired according to IMO 2010 FTP Code.
- 4) The product or packing is to be marked with manufacturer name and type designation on a suitable position.
- 5) Any adhesives used in A or B Class divisions should be low flame spread.
- 6) Individual Product Certification is not required. < End of page >