Certificate No: TYG00745-FP135

## Type Approval Certificate



## [Fire Protection Bulkhead]

Initial Approval 16th December, 2016

Manufacturer BIP Industries Co., Ltd.

67, Baedungongdan-gil, Hoehwa-myeon, Goseong-gun, Gyeongsangnam-do, Rep.

of Korea

Product Description Brand: BIP W-106SE(A)

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(

This Certificate is valid until 15th December, 2026 Issued at Tongyeong, Korea on 27th October, 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(ME21027114214) and certificate No.(TYG00745-FP135).



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.

<sup>2.</sup> This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.

<sup>3.</sup> Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.

<sup>4.</sup> 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.

Appendix 1 Certificate No : TYG00745-FP135

## **Product Description and/or Approval Condition**

Date of Issue: 27th October, 2021

- 1. Product Descriptions
- 1) The bulkhead consists of panels having 48.5 mm thick mineral wool insulation (140kg/m², KCC Corporation, Gimcheon Plant) covered with 0.4 mm thick perforated steel sheet and 0.6 mm thick galvanized steel sheet on both sides.
- 2) The mineral wool has air gap (50 mm width x 20 mm height) at 50 mm spacing.
- 3) The mineral wool is bonded to steel sheets with adhesive "BNUR-1000" or "OCUA-1000RC".
- 4) The panels are connected each other by M-profiles (0.6 mm thick) and spline joints (3 mm thick, 30 mm width).
- 5) Max. panel size : 600 mm x 2480 mm (W x H)
- 6) Total thickness of bulkhead: 50 mm
- 2. Approved Drawings: No. W-106SE-RO (6 pages including cover)
- 3. Approval Conditions
- 1) This approval is granted on the basis of the test report no. AK2012-0185 dated on August 20th, 2012 issued by Fire Insurers Laboratories of Korea(FILK).
- 2) The surface materials, if applied, shall be of type approved by the Society.
- 3) In case where the panel is penetrated to incorporate light fixture and similar devices, arrangement shall be made to ensure that the fire resistance is not impaired.
- 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) This approval does not cover the airborne sound insulation properties.
- 7) Approval Certificate for Manufacturer (Cert. no. : CSP00745-PA001) is to be retained validly apart from this Approval.
- 8) Individual Product Certification is not required.

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AC-2A (2021.01)