Certificate No: TYG00745-FP014

Type Approval Certificate



[Fire Protection Bulkhead]

Initial Approval 27th February, 1988

Manufacturer BIP Industries Co., Ltd.

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

Korea

Product Description Brand: BIP W-106S

- 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 26th February, 2026

Reissued 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(ME21000170696) and certificate No.(TYG00745-FP014).



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.

Appendix 1 Certificate No : TYG00745-FP014

Product Description and/or Approval Condition

Date of Isuue: 8th January, 2021

1. Product Descriptions

- 1) The BIP W-106S composed of two layers of mineral wool (manufactured by KCC Corporation) of density 140 kg/m³ divided by 0.6 mm thick perforated steel sheet with 6 mm air space 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 240 kg/m^3 .

- 3) The panels are connected with a spline joint profile(3 mm x 30 mm) and the mineral wool insulation(240 kg/m³) is used around the joint of the panels.
- 4) Max. panel size : 600 mm x 2500 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-W106S-R0 ($1/6 \sim 6/6$) dated on December 16th, 2013.
- 3. Approval Conditions
- 1) This approval is granted on the basis of the test report no. AK2013-0460 dated on March 6th, 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 >

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