



TYPE APPROVAL CERTIFICATE

Certificate No. : CSP00745-FP029 **Initial Approval** : 29th March, 1995
Product : Fire Protection Bulkhead
Manufacturer : BIP Industries Co., Ltd.
28, Sonam 3 Gil, Yangsan-si, Gyeongsangnam-do, Korea

Product Description : Brand : BIP W-151S
- 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 and entered in the "List of Approved Manufacturers and Type Approved Equipment".

Pt.8, Ch.1 of the Rules for Classification of Steel Ships and IMO 2010 FTP Code Part 3.

This Certificate is valid until 28th March, 2025

Issued at Jangsaengpo, Korea on 5th February, 2020



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 (ME20004081367) and certificate No.(CSP00745-FP029).



KOREAN REGISTER OF SHIPPING

*General Manager of
Jangsaengpo 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

Product Description and/or Approval Condition

Certificate No : CSP00745-FP029

Date of Issue : 5th February, 2020

1. Product Descriptions

- 1) The bulkhead consists of panels having 25 mm thick mineral wool insulation (140 kg/m³) covered with 0.6 mm thick galvanized steel sheet on both sides.
- 2) The panels are connected each other by spline joint profile (3 mm thick, 30 mm wide).
- 3) The mineral wool is bonded to steel sheets with urethane adhesive "OCUA-1000RC" manufactured by Dae Han Polymer Co., Ltd, "BNUR-1000" manufactured by BN Chemical Co., Ltd.
- 4) Total thickness : 25 mm
- 5) Max. panel size : 600 mm x 2500 mm (W x H)

2. Approved Drawings : No. F2015-W151S-R0 (5 pages including cover)

3. Approval Conditions

- 1) This approval is granted on the basis of the test report no. AK2015-0301 dated on 08th June 2015 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. : GSP00745-PA001) is to be retained validly apart from this Approval.
- 8) Individual Product Certification is not required.

< End of page >