



# Type Approval Certificate

[ Fire Protection Door ]

**Initial Approval** 28 July 2017

**Manufacturer** BIP Industries Co., Ltd.  
67, Baedungongdan-gil, Hoehwa-myeon, Goseong-gun, Gyeongsangnam-do, Rep. of Korea

**Product Description** Brand : BIP APL-25F, Single leaf hinged Door (Inspection Hatch)  
- 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 and IMO 2010 FTP Code Annex 1, Part 3.

This Certificate is valid until 27 July 2027

Reissued at Busan, Korea on 19 August 2022



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(ME22023959516) and certificate No.(TYG00745-FP139).



**KOREAN REGISTER**

*General Manager of  
Marine & Ocean Equipment Team*

- 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 : 19 August 2022

### A. Product Description

#### 1. Product Specification

- 1) 25 mm thick Single leaf hinged (Piano Hinge) Door (Inspection Hatch) for wall panel
- 2) The hatch consists of 25 mm thick mineral wool insulation (140 kg/m<sup>3</sup>, KCC Corp.) covered with 0.6 mm thick galvanized steel sheets on both sides.
- 3) The mineral wool is bonded to steel sheets with adhesive "OCUA-1000RC".
- 4) Total thickness of hatch leaf : 25 mm
- 5) Max. clear opening size of hatch : 540 mm x 1900 mm (W x L)
- 6) Max. Size of hatch leaf : 583 mm x 1946 mm (W x L)
- 7) The hatch leaf is fitted to the wall panel by 0.7 mm thick stainless steel piano hinge with 1.6 mm thick galvanized steel hatch frame, 1.2 mm thick galvanized steel counter frame and ø3.2 stainless steel pop rivet (pitch : Max. 75 mm) & screws (ø4 x 16L, pitch : Max. 300 mm)
- 8) 2.2 mm thick Bumper (3M Korea Co., Ltd., Model : SJ5302) is fitted at the upper side and bottom side of the hatch frame where the hatch touches the frame.
- 9) The hatch is locked by means of 'Door Lock' device at the opposite side of the hinge.

※ For more details, see the approved drawings and/or test report(s) listed below.

#### 2. Approved Drawings and Documents

- 1) Drawing No. F2019-APL25F-R0 (8 sheets with a cover / Rev.0)

#### 3. Test Reports, etc.

- 1) Test Report No. KOMERI-0402-19T4661(E)-A dated Jan. 29, 2020 issued by Korea Marine Equipment Research Institute (KOMERI).

### B. Approval Condition

#### 1. Application & Limitation

- 1) The surface materials, if applied, shall be of type approved by the Society.
- 2) Any adhesives used in A or B Class divisions should be low flame spread.
- 3) This approval does not cover the airborne sound insulation properties.
- 4) Approval Certificate for Manufacturer (Cert. No. : TYG00745-PA001) is to be retained validly apart from this Approval.

#### 2. Individual Product Cert. and Drawing Approval Requirement

- 1) Individual Product Certification is not required.

#### 3. Marking

- 1) The product or packing is to be marked with manufacturer name and type designation on a suitable position.

#### 4. Others

- 1) N/A

< End of certificate >