

Type Approval Certificate



[Fire Protection Access Hatch]

Initial Approval 23 March 2018
Manufacturer JBM Co., Ltd.
 18-13, Gatgol-gil, Ungchon-myeon, Ulju-gun, Ulsan, 44968, Rep. of Korea

Product Description Brand : JBM-930x930
 - Grade : A-60 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 22 March 2028

Issued at Jangsaengpo, Korea on 23 March 2023



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(ME23011782641) and certificate No.(CSP37480-FP002).



KOREAN REGISTER

[Signature]

*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.

Product Description and/or Approval Condition

Date of Issue : 23 March 2023

A. Product Description

1. Product Specification

- 1) The hatch consists of steel hatch coaming(11 mm thick, 610 mm high) and steel hatch cover(10 mm thick) stiffened with four steel stiffeners(12 mm thick, 40 mm depth).
- 2) The hatch cover and hatch coaming are secured by two hinges(20 mm thick, 18 mm thick) and four points of dog plate(24 mm thick) controlled by hand-wheel on both side of the hatch cover.
- 3) Hi-Wool(50 mm thick, 120 kg/m³) with aluminium foil on it is applied at the both inside of the hatch cover and the hatch coaming. The insulaton is fitted to the Hatch inside by $\Phi 3.2 \times 55L$ steel pin & $\Phi 32$ cap washer(pitch : Max.250 mm).
 - Insulation : "Hi-Wool" , manufactured by KCC Corporation
 - Aluminium foil : "HC-AAF" , manufactured by Hankuk Carbon Co., Ltd.
- 4) Following gaskets(35 mm width, 15 mm thick) are applied at the contact part between hatch cover and hatch coaming.
 - Ceramic gasket : "Ceramic yarn", manufactured by Youngil Industry Co., Ltd.
 - Silicone gasket : "SH1520U" , manufactured by KCC Corporation.
- 5) Max. clear opening size : 930 mm x 930 mm
- 6) Max. size of the coaming inside : 960 mm x 960 mm
- 7) Max. Size of the hatch cover : 1112 mm x 1112 mm
- 8) Hatch Coaming is welded on the structural deck.

2. Approved Drawings and Documents

- 1) No. JB16-P0149-01-R1 dated on July 20th, 2016 (Total 8 sheets including cover page)

3. Test Reports, etc.

- 1) This approval is granted on the basis of the test report no. KOMERI-0402-16T1908 dated on Dec. 23th, 2016 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. : CSP37480-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

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