



# Type Approval Certificate

[ Fire Protection Continuous Ceiling ]

**Initial Approval** 10 May 1991  
**Manufacturer** BIP Industries Co., Ltd.  
67, Baedungongdan-gil, Hoehwa-myeon, Goseong-gun, Gyeongsangnam-do, Rep. of Korea  
**Product Description** Brand : BIP C-161  
- Grade : B-0 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 Part 3.

This Certificate is valid until 3 August 2028

Issued at Tongyeong, Korea on 1 June 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(ME23022948422) and certificate No.(TYG00745-FP021).



**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.

## Product Description and/or Approval Condition

Date of Issue : 1 June 2023

### 1. Product Descriptions

- 1) The ceiling consists of panels having 15 mm thick mineral wool insulation (200kg/m<sup>3</sup>, KCC Corp.) covered with 0.6 mm thick steel sheets on exposed side only.
- 2) Total thickness : 30 mm
- 3) Max. panel size : 600 mm x 2375 mm (W x H)
- 4) The panels are connected each other with screws. (SUS, P:300 mm)
- 5) The long panels are connected with the short ones by T-carrier and these are jointed with screws. (SUS, P:300 mm)
- 6) The ceiling is connected to deck with three Hanger sets installed on T-carrier.
- 7) Max. distance between hangers : 900 mm  
Max. distance between hangers and bulkhead : 300 mm

### 2. Approved Drawings : F2014-C161-R0 1/8 to 8/8 (Total 8 Sheets with a Cover)

### 3. Approval Conditions

- 1) This approval is granted on the basis of the test report no. AK2014-0068R dated on 11th. Apr. 2014 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) Individual Product Certification is not required.
- 7) This approval does not cover the airborne sound insulation properties.
- 8) Approval Certificate for Manufacturer (Cert. no. : TYG00745-PA001) is to be retained validly apart from this Approval.

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