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Certificate No: LR23365366SF Issue Date: 18/09/2023 Expiry Date: 17/09/2028

# **Certificate Of Fire Approval**

This is to certify that the product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer BIP Industries Co., Ltd.

Address 1817, Jungang-Daero, Geumjeong-gu, Busan, Republic of Korea

**Type** B-0 Ceiling

**Description** Fire Resisting B-0 Class Continuous Ceiling Panel System

**Trade Name** BIP C-613

**Specified Standard** IMO Res. MSC.307(88) – (2010 FTP Code) Annex 1 Part 3

This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register Asia of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document and its supplementary Type Approval Terms and Conditions form part of this

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

Kwang-Baek Kim

Fire & Safety - Senior Specialist to Lloyd's Register Asia A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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Reference: BTSO/F&S/TA/KBK/CHA2301989/PRJ11100416618

## **ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No.LR23365366SF**

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.

This Design Appraisal Document forms part of the Certificate.

This Certificate is a Renewal of Certificate Number SAS F180312-02.

### **APPROVAL DOCUMENTATION**

#### **TEST REPORTS**

Fire Insurers Laboratories of Korea (FILK), 69-1 Simseok-Ri, Ganam-Myeon, Yeoju-Gun, Gyeonggi-Do, 469-881, Korea; Test Report No. AK2012-0618 dated 23<sup>rd</sup> November 2012.

#### **CONDITIONS OF CERTIFICATION**

- 1. Ceiling panel system 'BIP C-613' consisting of: panels of 0.6mm thick galvanised steel sheet panels formed into trays 25mm deep, filled on non-exposed upper side with one sheet of (25mm thick, 60 kg/m³ density) mineral wool insulation manufactured by KCC Corporation. Total thickness of ceiling: 25mm.
- 2. Adjacent panels connected together longitudinally with overlapping joints.
- 3. Adjacent panels connected at ends with T carrier welded to deck above.
- 4. Panels connected to bulkhead by seating on bottom steel profile welded to bulkhead and top steel profile screwed on top and secured with self tapping screws.
- 5. Maximum ceiling panel width: 300mm
- 6. Maximum ceiling panel length: 2360mm
- 7. Maximum distance between 'T'ceiling hangers: 900mm
- 8. Maximum distance between top of ceiling and bottom of overhead deck: 300mm
- 9. Composition, application and installation of sub components, including any adhesives, seals and any fire retardants, to be maintained in production and use in accordance with originally tested composition formula and method of application and installation, and manufacturer's instructions.
- 10. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure that items are of the same standard as the approved prototype.

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11. The certificate holder is solely responsible for the products supplied under this Certificate and to ensure that their products, whether manufactured by themselves or their licensee manufacturers, if agreed by Lloyd's Register, are fully compliant with the relevant statutory regulations and Lloyd's Register Class rules as applicable and designed, manufactured and installed to the same quality and specifications as the prototype tested, including components that are designed and manufactured by third parties.

#### **PLACE OF PRODUCTION**

BIP Industries Co Ltd 67, Baedungongdan-gil Hoehwa-myeon, Goseong-gun Gyeongsangnam-do Republic of Korea

K B Kim

Kwang-Baek Kim Senior Specialist, Fire & Safety to Lloyd's Register Asia Busan Technical Support Office, Marine & Offshore Lloyd's Register Group

# **Supplementary Type Approval Terms and Conditions**

This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s)

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