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 Certificate No:
 LR21189229SF

 Issue Date:
 29/10/2020

 Expiry Date:
 28/10/2025

# **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** Non Load Bearing Partition System (Standard Fire Test)

**Description** A60 Equivalent Fire Resisting Partition

Trade Name BIP W-A60

Specified Standard IMO Res. MSC.61(67) – (FTP Code) Annex 1 Part 3

IMO MSC/Circ.1120

IMO Res. MSC.307(88) - (2010 FTP Code) Section 8

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 EMEA 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 Certificate.

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.

Jessica Evans

Senior Surveyor to Lloyd's Register EMEA A member of the Lloyd's Register group

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

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Reference: UKITSO/FIRE/TA/JE/WP42006702

#### ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR21189229SF

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 SASF154057

# **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. 2008-1534 dated 17<sup>th</sup> February 2009.

# **CONDITIONS OF CERTIFICATION**

- 1. Application in each case to be approved by the plan approval authority at the design stage.
- 2. Non load bearing partition consisting of: one sheet of mineral wool insulation (50mm thick, density 140 kg/m³) manufactured by KCC Corporation, Korea with either side vertical interlocking panels each of:
  - 0.6mm thick galvanised steel sheet panels each side of an insulation core (25mm thick, density 140 kg/m³) mineral wool manufactured by KCC Corporation, Korea. Bonded with adhesives 'OCUA-1000RC' manufactured by DAI HAN POLYMER Co., and 'BNUR-1000' manufactured by BN STEEL CHEMICAL Co., Ltd.
- 3. Total thickness of bulkhead system: 100mm
- 4. Maximum width of panels: 600mm
- 5. Installation: panels to be secured as per fire test condition.
- 6. Panels secured at top and bottom rails and at end vertical boundaries by steel screws into steel profiles 2mm thick.
- 7. Not to be used for stairwell enclosures and main fire zone bulkheads on passenger ships.
- 8. 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.
- 9. 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.
- 10. 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 .

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# **ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR21189229SF**

#### **PLACE OF PRODUCTION**

BIP Industries Co Ltd 67 Baedun-gong Dangil Hoehwa-myeon, Goseong-gun Gyeongsangnam-do Republic of Korea

Jessica Evans
Senior Specialist
Statutory Fire & Safety
Marine Technology and Engineering Services
Global Technology Centre
Lloyd's Register EMEA

# **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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