



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, 46273, South 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.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 Marine and Offshore India LLP 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.

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Chandrashekar Aher

Team Lead - Fire and Safety to Lloyd's Register Marine and Offshore India LLP
A member of the Lloyd's Register group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR25403231SF

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 certificate is a Renewal of certificate number LR21189229SF

APPROVAL DOCUMENTATION

TEST REPORT

Korea Marine Equipment Research Institute, 35, Mieumsandan 5-ro, Gangseo-gu, Busan 46744, Republic of Korea, Test Report No. KOMERI-0402-23T0778(E) dated 04th July 2023

MANUFACTURER'S DRAWING: F2023-WA60-R0 - FIRE PROTECTION TEST SPECIMEN FOR BIP W-A60

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 (23.5 mm 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 1 mm 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 the parties. 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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PLACES OF PRODUCTION

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

Chandrashekar Aher
Team Lead - Fire & Safety
Global Technical Support Office, Maritime Operations
Lloyd's Register Marine and Offshore India LLP

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)

