



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	B-15 Class Bulkhead Hatch
Description	Fire Resisting Bulkhead Hatch
Trade Name	BIP APL-25F
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.

Units 1702-1704, 17th Floor (Level-13), Building
Q2, Aurum Q Parc; Gen 4/1 TTC, Thane-Belapur
Road, Ghansoli, Navi Mumbai, 400710, India

Chandrashekhar 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. LR26140405SFTC

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 an Amendment of Certificate Number LR25403245SF

APPROVAL DOCUMENTATION

TEST REPORT

Korea Marine Equipment Research Institute , 35, Mieumsandan 5-ro, Gangseo-gu, Busan 46744, Republic of Korea, Test Report No. KOMERI-0402-19T4661(E) dated 29th January 2020.

MANUFACTURER'S DRAWING - F2019-APL25F-RO - FIRE TEST SPECIMEN FOR BIP APL-25F

CONDITIONS OF CERTIFICATION

1. When fitted in an approved B-Class bulkhead.
2. Maximum hatch leaf size: 1946mm high x 583mm wide x 25mm thick.
3. Maximum hatch clear opening size: 1900mm high x 540mm wide.
4. Inspection hatch consisting of: 0.6mm thick galvanised steel door skins either side of an insulation core, comprising one layer of mineral wool insulation (23.5mm thick, 140 kg/m³ density) manufactured by KCC Corporation, bonded using adhesive 'OCUA 1000RC' manufactured by Daehan Polymer Industries Co Ltd.
5. Hatch fitted with steel piano hinge and steel lock.
6. Hatch frame consisting of 1.6 mm thick steel angle frame screwed to bulkhead.
7. Composition, application and installation of sub components, including 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.
8. 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.
9. 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 .



DESIGN APPRAISAL DOCUMENT

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Certificate No:

LR26140405SFTC

Reference:

GTSO/FIRE/TA/CA/RP/ TSO/26-055558/PRJ111005104109-1

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PLACE 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)



This product has been verified to be fully in accordance with Transport Canada Procedure TP 14612E "Procedures for approval of life-saving appliances and fire safety systems, equipment and products and is suitable to be placed on Canadian Flagged vessels.

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