

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00000YD
Revision No:
5

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify: that the Fire Doors

with type designation(s)
BIP APL-25F

issued to
BIP Industries Co., Ltd. Goseong
Goseong-gun, Gyeongsangnam-do, Republic of Korea

is found to comply with the requirements in the following Regulations/Standards:
Regulation (EU) 2023/1667,
item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511,
IMO MSC.1/Circ.1319

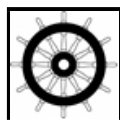
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2029-05-19**.

Issued at **Høvik** on **2024-05-20**

DNV local unit:
Gimhae Station

Approval Engineer:
Karolina Kusmider



Notified Body
No.: **0575**



for **DNV AS**

Digitally Signed By:
Tessa Biever
Location: DNV Høvik, Norway
on behalf of

Mydlak-Röder, Christine
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005, and amended by Decision No 1/2023 dated August 21st, 2023.



The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

"BIP APL-25F inspection door"

Single leafed hinged door composed of (two variants):

1. a 23.5 mm mineral wool core (from KCC Corporation Korea, density 240 kg/m³) bonded with BNUR-1000 adhesive (manufactured by BN Chemical) to 0.6 mm steel sheet on both sides. The door leaf is equipped with a door lock and piano hinge.

or:

2. a 23.5 mm mineral wool core (from KCC Corporation Korea, density 140 kg/m³) bonded with OCUA-1000RC Urethane adhesive (manufactured by Dae Han Polymer Industries) to 0.6 mm steel sheet on both sides. The door leaf is equipped with a door lock and piano hinge.

Total door thickness is 25 mm.

Door frame consists of two parts, a hatch frame made of 1.6 mm steel plate (20 mm x 26 mm x 25 mm) and a counter frame made of 1.2 mm steel plate (20 mm x 45 mm). The hatch frame and counter frame are fastened to the bulkhead panel with screws (Ø4 mm, 16 mm in length with max. spacing of 300 mm).

For details, see test report and drawings listed under Type Examination documentation below.

Application/Limitation

Approved for use as an integrated part of fire retarding divisions of class B-15.

Variant 1:

Max clear opening: 900 mm x 1770 mm (W x H)

Max size of door blade: 950 mm x 1820 mm (W x H)

Variant 2:

Max clear opening: 540 mm x 1900 mm (W x H)

Max size of door blade: 590 mm x 1950 mm (W x H)

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity. This requirement may also be applicable for surface materials used, if required by relevant rules and regulations.

Each product is to be supplied with its manual for installation, use and maintenance.

Type Examination documentation

Test report No. AK2013-0457 dated 6 March 2014 from "FILK" Fire Insurers Laboratories of Korea, Korea.

Test report No. KOMERI-0402-19T4661(E)-A dated 29 January 2020 from KOMERI, Busan, Korea

Drawings No. F2013-APL25F-R5 (6 sheets) dated 18 December 2013 from manufacturer.

Drawings No. F2019-APL25F-R0 (8 sheets) dated 20 September 2019 from manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

The product is to be marked with name and address of manufacturer, type designation, fire technical rating, MED Mark of Conformity and USCG approval number if applicable (see first page).