

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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 GL AS under the authority of the Government of Norway.

This is to certify:

That the Fire Doors

with type designation(s)
BIP AP-25F

Issued to

BIP Industries Co., Ltd.
Yongsan-si, Gyeongsangnam-do, Republic of Korea

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2018/773**,
item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511

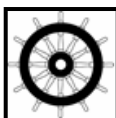
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-06-03**.

Issued at **Høvik** on **2019-06-04**

DNV GL local station:
Gimhae Station

Approval Engineer:
Tessa Biever



Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
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.

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 GL 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Product description

"BIP AP-25F"

single leafed piano hinged door composed of 0.6 mm steel sheet insulated with 25 mm mineral wool manufactured by Keumkang Korea Chemical Co., Ltd., with density 240 kg/m³. The insulation is glued to the steel with adhesive "OCUA-1000RC" manufactured by Dae Han Polymer Ind., Co.

Door thickness is 25 mm.

The door has integrated side panels of the same thickness as the door, connected with special joints to the B-15 bulkhead panels (see drawing). Door frame consists of , a $\perp$ -profile made of 0.6 mm steel plate (20x42 mm), which is welded to the integrated side panel.

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.

Max clear opening: 900 x 1900 mm (width x height).
Max size of door blade: 940 x 1940 mm (width x height).

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. AK2013-0349 dated 16 December 2013 from Fire Insurers Laboratories of Korea (FILK), Gyeonggi-Do, Korea.

Drawing No. F2013-AP25F-R4 dated 5 June 2013, 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, the MED Mark of Conformity, and USCG approval number if applicable (see first page).