

EC-TYPE EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2014/93/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the "B" Class divisions, fire integrity

with type designation(s)

BIP C-615: B-15 Class Continuous Ceiling

Issued to

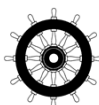
BIP Industries Co., Ltd.
Gyeongsangnam-do, Republic of Korea

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

Annex A.1, item No. A.1/3.11b and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2.3.4.4. and IMO 2010 FTP Code.

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

Høvik, 2015-10-07
for **DNV GL AS**



This Certificate is valid until
2020-06-03

Notified Body No.: **0575**

Vidar Dolonen
Head of Department

DNV GL local office:
Pusan

Øyvind Hoff
Surveyor

Product description

"BIP C-615: B-15 Class Continuous Ceiling"

Composed of panels suspended below the structural steel deck. Panels consist of 50 mm thick mineral wool (manufactured by KCC Corporation, Korea) of density 80 kg/m³, covered with 0.6 mm thick galvanized steel sheet on exposed side.

The panels are joined together by means of male and female sliding arrangement.

Max. distance between P751 T-carriers (longitudinal direction): 2360 mm

Max. distance between P754 Hanger sets (transverse direction): 900 mm

Total ceiling thickness is 50 mm.

For further details, see the drawings listed under Type Examination documentation below.

Application/Limitation

Approved for use as a horizontal continuous fire retarding division of class B-15.

Max panel size is 300 x 2360 mm (W x L).

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 and use.

Type Examination documentation

Test Report No. AK2013-0208 dated 08 Oct. 2013 from Fire Insurers Laboratories of Korea (FILK), Korea.

Letter dated 23 September 2015 from FILK.

Drawing No. F2013-C615-R0 (8 pages) dated 02 July 2013 from BIP.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

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

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.

USCG Approval

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.