

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive (EU) 2015/559, 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 the Kingdom of Norway.

This is to certify:**That the "B" Class divisions, fire integrity**with type designation(s)
BIP W-151SD

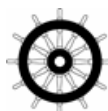
Issued to

BIP Industries Co., Ltd.
Yangsan-si 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.

This Certificate is valid until **2021-05-16**.Issued at **Høvik** on **2016-09-14**DNV GL local station:
PusanApproval Engineer:
Synnøve Bolstad EriNotified Body
No.: **0575**for **DNV GL AS**-----
Vidar Dolonen
Head of Notified Body

Product description

"BIP W-151SD"

The bulkhead composed of two insulated steel panels mounted with a 25 mm air gap between them. Each panel is made of 23.5 mm thick mineral wool from KCC Corporation with nominal density of 140 kg/m³ faced on both sides with 0.6 mm thick galvanized steel plates (bonded with adhesive). The steel plates facing the air gap are perforated, while the plates facing outwards have smooth finish. Vertical edges of both sides of the panel are reinforced with 0.6 mm steel support channel. Bulkhead sections are connected together using spline joint profiles (3 x 30 mm).

Total bulkhead thickness is 75 mm.

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

Application/Limitation

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

Max panel size: 600 x 2480 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. A2012-1453 dated 28 May 2013 from Fire Insurers Laboratories of Korea (FILK), Gyeonggi-Do, Korea.

Drawing No. F2013-W151SD-R0 dated 6 March 2013 (5 pages) 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 of manufacturer, type designation, fire technical rating and MED Mark of Conformity (see first page).