

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-106SE(6)/W-106SE(A)

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.

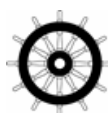
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2021-09-13**.

Issued at **Høvik** on **2016-09-14**

DNV GL local station:
Pusan

Approval Engineer:
Synnøve Bolstad Eri



Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body

Product description

"BIP W-106SE(6)/W-106SE(A)"

composed of 0.6 mm galvanized + 0.4 mm perforated steel sheets on each side of an insulation core. For type W-106SE(6) the insulation core consists of 2 x 22.5 mm thick mineral wool (manufactured by KCC Corporation) of density 140 kg/m³ with a 5 mm air space in between. For type W-106SE(A) the insulation core consists of 50 mm thick mineral wool (same as above) with 6 vertical air channels (50x20 mm) in the centre of each panel.

The panels are joined together by means of spline joint profiles (3 x 30 mm). The mineral wool is bonded to steel sheets with adhesive.

Panel thickness is 50 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 reports No. AK2012-0185 dated 20 August 2012 and A2012-0931 dated 20 February 2013 both from Fire Insurers Laboratories of Korea (FILK), Gyeonggi-Do, Korea.

Drawings No. W-106SE-R0 (5 pages) dated 21 May 2012 and W-106SE(6)-R0 (5 pages) dated 2 November 2012 both 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).