DNV·GL

Certificate No:
MEDB00000JM

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 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 "A" Class divisions, fire integrity

with type designation(s)
BILLYTEX DPU-BF BA

Issued to
Daehyup Tech Co., Ltd.
Ulsan Korea, Republic of Korea

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/3.11a and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation II-2/3.2.5 and IMO 2010 FTP Code.

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

This Certificate is valid until **2021-05-25**.

Issued at **Høvik** on **2016-05-26**

for **DNV GL AS**

DNV GL local station:
Ulsan

Approval Engineer:
Ragnar Tonjer

Notified Body
No.: **0575**

Vidar Dolonen
Head of Notified Body

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Product description

"BILLYTEX DPU-BF BA"
Composed of a structural steel bulkhead insulated on stiffeners side. A 1 mm thick visco-elastic layer (BILLYTEX Bestoflex W) and a 2 mm thick steel plate is fastened to the stiffened side of the bulkhead by Hex bolts and nuts 90 mm from nearest stiffener. Maximum distance from a horizontal plate joint to nearest bolt is 80 mm.

A 75 mm + 30 mm layer of mineral wool type "SeaRox SL620", density 100 kg/m3 (manufactured by Rockwool International A/S) is laid on top and fixed with steel pins and washers.

A 30 mm layer of mineral wool of the same type as above is laid over, around and inside the stiffeners and fixed with steel pins and washers.

The mineral wool ends are laid with butt joint. Maximum distance from a mineral wool joint to nearest pin is 100 mm.

Maximum vertical distance between pins on the bulkhead is 400 mm and on the stiffeners 300 mm.

For more details see drawing mentioned under Type Examination documentation below.

Application/Limitation

Approved for use as a vertical fire retarding steel division of class A-60.

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 maintenance.

Type Examination documentation

Test Report No. KOMERI-0402-15T2769 dated 2015-12-29 from Korea Marine Equipment Research Institute (KOMERI).

Drawing No. DHT20150917-01 (5 sheets) dated 2015-09-17.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

The product or packing is to be marked with name of manufacturer, type designation, MED Mark of Conformity and USCG approval number if applicable.