DNV·GL

Certificate No:
MEDB00000D2

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 Surface materials and floor coverings with low flame-spread characteristics: decorative veneers

with type designation(s)
BILLYTEX BESTOFLEX W

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.1/3.18a and Annex B, Module B in the Directive. SOLAS 74, Reg. II-2/3, II-2/5, II-2/6, II-2/9 & X/3, IMO MSC/Circ. 1120, 2000 HSC Code 7 and IMO 2010 FTP Code

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

Høvik, 2015-12-16
for **DNV GL AS**

This Certificate is valid until
2020-12-15

Notified Body No.: **0575**

Vidar Dolonen
Head of Department

DNV GL local office:
Ulsan

Øyvind Hoff
Surveyor

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Product description

"BILLYTEX BESTOFLEX W"
A decorative veneer composed of the following layers:

- a bulkhead, wall or ceiling that is prepared with welded-on M8 stud bolts.
- a 5-7 mm thick visco-elastic layer of type BESTOFLEX W (a grey coloured two-component Polyurethane compound).
- 2 mm thick steel plates prepared with Ø15 mm holes in a pattern that matches the stud bolts.

The 2 mm thick steel plates are mounted onto the stud bolts, squeezed into the visco-elastic mass and locked in position by nuts and washers. The joints/gaps between steel plates (corresponding to the areas where the visco-elastic mass is visible) shall not exceed 20 mm.

For further details, including distances between stud bolts, see the installation manual.

Application/Limitation

Approved for use as low flame spread surface material, not generating excessive quantities of smoke nor toxic products in fire.
Approved for use as decorative veneer on a metallic substrate with thickness of at least 2.25 mm.

Any adhesive used has to be tested for low flame spread characteristics according to IMO 2010 FTP Code part 5 and to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

The product satisfies the requirement for maximum calorific value (ref. Solas Chapter II-2, Reg 5.3.2.2) without further testing.

Each product is to be supplied with its manual for installation, use and maintenance.

Type Examination documentation

Tests carried out

Tested according to IMO 2010 FTP Code part 5 and Annex 2 item 2.2.

Marking of product

The product or packing 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.