

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), 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 Norway.

This is to certify:

That the Primary deck coverings

with type designation(s)
BILLYTEX PU-100

Issued to

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

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

Regulation **(EU) 2018/773**,

item No. MED/3.1. SOLAS 74 as amended, Regulation II-2/4, II-2/6 & X/3, 2000 HSC Code 7 and IMO 2010 FTP Code

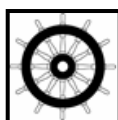
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2023-09-17**.

Issued at **Høvik** on **2018-09-18**

DNV GL local station:
Ulsan

Approval Engineer:
Nanna Martine Jacobsen



Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
Head of Notified Body

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.

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



Product description

"BILLYTEX PU-100"

A primary deck covering composed of:

1. Layer 1: a 0.3 - 0.5 mm thick layer of PU 101 primer coat applied onto the steel deck
2. Layer 2: a 2 - 7 mm thick layer of PU-102 1st base coat.
3. Layer 3: a 1 - 3 mm thick layer of PU-103 2nd base coat.
4. Layer 4: a 0.2 - 0.5 mm thick layer of PU-104 sealer coat.

Main ingredients: Poly urethane, EPDM Chip and Phosphorus containing flame retardant.

Recommended thickness: 3.5 - 11 mm

Standard thickness: 5.5 mm

Nominal density: 1300 kg/m³

Application/Limitation

Primary deck covering, not generating excessive quantities of smoke nor toxic products in a fire.

Approved colour: Grey

Max. organic content: 43 %

Not to be used as an integrated part of horizontal class A division, unless tested as such.

The product may be applied over any steel or non-combustible material.

The product may also be used as floor covering in accordance with IMO 2010 FTP code Part 5 appendix 4 paragraph 4.9.2.

Each product is to be supplied with its manual for application and maintenance.

Type Examination documentation

Test report No. KOMERI-0402-16T3998 dated 13 March 2017 from Korea Marine Equipment Research institute (KOMERI), Korea.

Tests carried out

Tested according to IMO 2010 FTP Code Annex 1, Part 5 and in compliance with Annex 2, Item 2.2.

Marking of product

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