



Certificate no.:
TAF000021B

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Horizontal Class A Division**

with type designation(s)
BILLYTEX DPU-BF FFA

issued to

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

is found to comply with

DNV offshore standards
DNV rules for classification – Ships
DNV statutory interpretations DNV-SI-0364 – SOLAS interpretations, Edition July 2021

Application:

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

This certificate is recognized by Transport Canada.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Høvik** on **2025-11-13**

This Certificate is valid until **2030-11-12**.

for **DNV**

DNV local unit: **Ulsan, CMC Korea**

Approval Engineer: **Joanna Kowalczuk**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

"BILLYTEX DPU-BF FFA"

A steel deck that is covered on its upper side with the following layers:

- 1) 50 mm thick stone wool slabs (Rockwool SeaRox SL 436 or KCC Mineral wool #140, 140 kg/m³)
- 2) 1.5 mm thick steel strips
- 3) 3 mm thick steel plates
- 4) 1 mm thick Visco-Elastic mass (BILLYTEX BESTOFLEX, 1300 kg/m³)
- 5) 2 mm thick steel plates

The layers are forming a floating floor with nominal thickness 56 mm (not including the steel deck plate).

Hex head self-drilling screws (pitch 300 mm) are used to join layer 2-5.

For further details, see the installation manual and the Type Examination documentation below.

Application/Limitation

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

Any surface materials used have to be approved for smoke and toxicity and low flame-spread characteristics (IMO 2010 FTP Code parts 2 and 5) when required according to relevant rules.

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

Type Approval documentation

Certification in accordance with Class Programme DNV-CP-0338, September 2021.

Test Report No. AK2014-0545 dated 02 December 2014 from Fire Insurers Laboratories of Korea (FILK), Gyeonggi-do, Korea.

Test Report No. KOMERI-0402-16T3528 dated 17 March 2017 from Korea Marine Equipment Research Institute (KOMERI).

Drawing No. DHS-141015-01 for FFA (5 pages) dated 15 October 2014 from manufacturer.

Drawing No. DHT-FFA-161028-01 (5 pages) dated 28 October 2016 from manufacturer.

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 and fire technical rating.

Transport Canada Approval

Based on the procedures laid down in the Transport Canada Publication entitled "Procedures for Approval of Life-Saving Appliances, Fire Safety Systems, Equipment and Products (TP14612)", DNV confirms that the product/s listed in this certificate is/are in accordance with Transport Canada's requirements.

Periodical assessment

DNV's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Class Programme DNV-CP-0338, Section 4.

Manufactured by:

Daehyup Tech Co., Ltd., 45, Eneojisaneop 6-ro, Seosaeng-myeon Ulsan 45014 Korea.