



Certificate no.:
TAF000021M

TYPE APPROVAL CERTIFICATE

This is to certify:
that the Floor Covering

with type designation(s)
HIFIC

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:

Low flame spread surface material, not generating excessive quantities of smoke nor toxic products in fire.

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 **2025-11-21**

This Certificate is valid until **2030-11-20**.

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

"HIFIC"

is a floor covering consisting of water, acrylic copolymer, silicon dioxide and aluminium hydroxide.

Density: 300 kg/m³
Max thickness: 10 mm

For further details see Type Approval documentation below.

Application/Limitation

Approved for use as floor covering on any low flame-spread floor covering, steel or non-combustible material.

Approved paint colour: white.

Maximum organic content: specified in document no. DHT-TDS-HIFIC-2025-11.17

Several layers of floor coverings are acceptable provided that each layer is approved according to the Marine Equipment Directive and bear the MED Mark of Conformity.

Approved for use as floor covering on any low flame-spread floor covering, steel or non-combustible material" (ref. IMO 2010 FTP Code, Part 5, Appendix 4, Table 1).

Any adhesive used, other than the one used during testing, has to be tested for low flame spread characteristics according to IMO 2010 FTP Code part 5.

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

Type Approval documentation

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

Test report no. KOMERI-0402-25T2511(E) dated 15 September 2025 from "KOMERI" Korea Marine Equipment Research Institute, Busan, Korea.

Document no. DHT-TDS-HIFIC-2025-11.17 dated 17 November 2025 from Manufacturer.

Tests carried out

Tested in accordance with IMO 2010 FTP Code Part 5 and 2.

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.