Certificate no.:
TAF00001X4

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Class A Bulkhead

with type designation(s)
DAEHYUP SPRAY S-B201 (A-60)

issued to
Daehyup Spray Co., Ltd.
Ulsan, **Republic of Korea**

is found to comply with
DNV statutory interpretations DNV-SI-0364 – SOLAS interpretations, Edition July 2021
DNV rules for classification – Ships
DNV offshore standards

Application:

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

General application: fire against either side.

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 **2024-09-02**
This Certificate is valid until **2029-09-01**.
DNV local unit: **Ulsan**

for **DNV**

Approval Engineer: **Helge Bjørnarå**

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 300,000 USD.

Product description
"DAEHYUP SPRAY S-B201 (A-60)",
composed of structural steel bulkhead insulated with minimum 60 mm spray insulation DAEHYUP SPRAY S (density 140 kg/m^3, manufactured by Daehyup Spray) between the stiffeners. The stiffeners are insulated with minimum 20 mm insulation of the same type on the sides and minimum 30 mm on the top.

For further details, see drawing listed under Type Approval documentation.

Application/Limitation
Approved for use as a vertical fire retarding division of class A-60.

General application: fire against either side.

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. KOMERI-F-10T165 dated 21 April 2010 from KOMERI, Busan, Korea.

Drawing No. DHS-S-B201-100318-01 dated 18 March 2010 from manufacturer.

Tests carried out
Tested according to IMO FTPC Part 3 and in compliance with IMO 2010 FTP Code Ch. 8.

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.