



Certificate No:
TAF00001ND

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class B Bulkhead

with type designation(s)
STACO W-C30UC Type B-15 Class Bulkhead

Issued to
STACO Co., Ltd.
Changwon-si, Gyeongsangnam-do, 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 vertical fire retarding division of class B-15.

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 **2021-12-14**

This Certificate is valid until **2026-12-13**.

for **DNV**

DNV local station: **Gimhae Station**

Approval Engineer: **Marcin Tobiasz**

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Helene David-Andersen
Head of Section

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.



Form code: TA 251

Revision: 2021-03

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Product description

"STACO W-C30UC Type B-15 Class Bulkhead"

consists an insulation core made of two layers of 15 mm thick mineral wool with density of 200 kg/m³ (manufactured by KCC Corporation), faced on one side with 0.6 mm steel sheet. The mineral wool and steel plate are glued to each other with adhesive type OCUA-970SNF (manufactured by Dai Han Polymer). The panels are jointed together with Omega profiles, made of 0.6 mm steel sheets and by self tapping screws, insulated with one layer of 15 mm thick mineral wool with density of 200 kg/m³ (manufactured by KCC Corporation).

Total panel thickness: 30 mm.

For further details see drawings listed under Type Approval documentation below.

Application/Limitation

Approved for use as a vertical fire retarding division of class B-15.

Maximum panel size: 600 x 2480 mm (W x H)

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 and regulations.

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 installation, use and maintenance.

Type Approval documentation

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

Test report No. KOMERI-0402-18T4851 dated 3 June 2019, from Korea Marine Equipment Research Institute (KOMERI), Busan, Korea.

Test report No. KOMERI-0402-20T3341(F) dated 12 November 2020, from Korea Marine Equipment Research Institute (KOMERI), Busan, Korea.

Drawing No. G-W-C30UC (5 pages) dated 2 January 2019 from manufacturer.

Drawing No. G-W-C30UC-R (5 pages) 18 August 2020 from manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

The product is to be marked with name of manufacturer, type designation, 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.