



Certificate no.:
TAF00001VW

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Class A Bulkhead

with type designation(s)
CW-96K-A60-CB I Type "A-60" Class Bulkhead

issued to

Wincell Insulation Co.,Ltd.
Taizhou, China

is found to comply with

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

Application:

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

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

This certificate is recognized by Transport Canada.

Issued at **Høvik** on **2024-03-18**

This Certificate is valid until **2029-03-17**.

for **DNV**

DNV local unit: **Jiangyin NB & CMC**

Approval Engineer: **Karolina Kusmider**

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: 2023-09

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Product description

"CW-96K-A60-CB I Type "A-60" Class Bulkhead"

Is a stiffened steel bulkhead with two layers of 40 mm in overall thickness (20 mm + 20 mm) CW 96K type Environment Protection Fiber Products insulation produced by Wincell Insulation with density of 96 kg/m³.

The insulation is fixed to the bulkhead by touch nail technology. Maximum distance between touch nails is 150 mm. Distances between touch nails along width direction of bulkhead core are 150 mm, 300 mm, 2400 mm and those along height direction are all 300 mm. For thermal insulation materials Ø3 mm studs and Ø30 mm compression rings are fixed on the surface of steel plate and wall material, 14 sets/m² (including those on the stiffeners).

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

Application/Limitation

Approved for use as a vertical 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 Annex 1 Parts 2 and 5) when required according to relevant rules.

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

Type Approval documentation

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

Test report No. FT22222 dated 10 November 2022 from FEFTC, Shanghai, China.

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.