



Certificate No:
TAF00001RJ

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Non-Combustible Material

with type designation(s)
Cellular Glass (ZES800-2400)

Issued to

Zhejiang Zhenshen Insulation Technology Corp. Ltd
Jiaxing, Zhejiang, China

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 :

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

DNV offshore standards

DNV statutory interpretations DNV-SI-0364 – SOLAS interpretations

DNV rules for classification – Ships

Issued at **Hamburg** on **2022-09-19**

This Certificate is valid until **2027-09-18**.

for **DNV**

DNV local station: **Shanghai**

Approval Engineer: **Timo Linn**

Jowita Permoda
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

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Product description

"Cellular Glass (ZES800-2400)"

Is a foam glass with the density of 125-240 kg/m³.

Max. organic content: 0.4%

Application/Limitation

Approved for use as non-combustible materials.

The product may be used as an integrated part of approved fire resisting divisions only when tested as such.

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, October 2021.

Test report No. FT13306 dated 21 October 2013 from FEFTC Far East Fire Testing Centre, Shanghai, China.

Test report No. FT15250 dated 03 August 2015 from FEFTC Far East Fire Testing Centre, Shanghai, China.

Technical Data Sheet dated July 2016 Rev.A from Zhejiang Zhenshen Cold Insulation Technology Co., Ltd.

Tests carried out

Tested according to IMO 2010 FTP Code Part 1.

Marking of product

The product or packing is to be marked with name of manufacturer and type designation.

Transport Canada Approval

Transport Canada: "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 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.