

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Non-Combustible Material**

with type designation(s)
Spray insulation "DSSIX"

Issued to

DOOSUNG Insulation Material Co., Ltd.
Yangsan-si, Gyeongsangnam-do, Republic of Korea

is found to comply with

DNV GL statutory interpretations DNVGL-SI-0364 – SOLAS interpretations
DNV GL rules for classification – Ships
DNV GL offshore standards

Application :

Approved for use as non-combustible materials.

This certificate is recognized by Transport Canada.

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

Issued at **Høvik** on **2019-02-28**

This Certificate is valid until **2024-02-27**.

for **DNV GL**

DNV GL local station: **Gimhae Station**

Approval Engineer: **Nanna Martine Jacobsen**

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Mårten Schei-Nilsson
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.



Job Id: **262.1-030411-1**
Certificate No: **TAF000014S**

Product description

Spray insulation "DSSIX" of two different types, are homogeneous products composed of:

- Glass wool and binder
- Mineral wool and binder

Nominal density of the glass wool and binder type in range of: 45 - 65 kg/m³
Organic content of the glass wool and binder type in range of: 4.4% - 5.1%

Nominal density of the mineral wool and binder type: 140 kg/m³
Organic content of the mineral wool and binder type: 1.6%

The products may be manufactured at DOOSUNG Insulation Material Co. Ltd, Yangsan-si, Gyeongsangnam-do, Korea

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.

To be applied in accordance with the "Installation and Maintenance Manual for Spray Insulation".
Each product is to be supplied with its manual for installation and use.

Type Approval documentation

Certification in accordance with Class Programme DNVGL-CP-0338, September 2018.

Test Report no. KOMERI-0402-17T2118 dated 2017-07-12 from KOMERI, Busan, Korea.
Test Report no. KOMERI-0402-18T2519-3 dated 2018-11-23 from KOMERI, Busan, Korea.
Test Report no. KOMERI-0402-18T2520-3 dated 2018-11-23 from KOMERI, Busan, Korea.
Test Report no. KOMERI-0402-18T2521-3 dated 2018-11-23 from KOMERI, Busan, Korea.

Installation and Maintenance Manual for Spray Insulation, from DOOSUNG Insulation Material Co. Ltd.

Tests carried out

Tested in accordance with 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

Based on the procedures laid down in the Transport Canada Publication entitled "Approval Procedures for, Life Saving Equipment and Structural Fire Protection Products (TP 14612)", DNV GL confirms that the products listed in this certificate are in accordance with Transport Canada's requirements.

Periodical assessment

DNV GL'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 DNVGL-CP-0338, Section 4.