DNV·GL

Certificate No:
TAF000014V

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Horizontal Class A Division

with type designation(s)
A-60 Class Deck of type "DSSIX-AD60"

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 used as Class A-60 Deck.

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**.
DNV GL local station: **Gimhae Station**

Approval Engineer: **Nanna Martine Jacobsen**

for **DNV GL**

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.

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Job Id: **262.1-030410-1**
Certificate No: **TAF000014V**

Product description

A-60 Class Deck of type "DSSIX-AD60"
Composed of a structural steel deck insulated on stiffened side with 30 mm spray insulation of type "DSSIX-140K" (density 140 kg/m^3) from DOOSUNG Insulation Material Co. Ltd.. 20 mm insulation of same type is fitted around the stiffeners and is used as filling of the stiffeners cavity.

See drawing mentioned under Type Approval documentation below for further details.

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

Application/Limitation

Approved for used as Class A-60 Deck.

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.

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

Type Approval documentation

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

Test report no. KOMERI-0402-18T2254 dated 2018-08-08 from KOMERI, Busan, Korea.

Drawing no. DSIM-SP201, Type: DSSIX-AD60, dated 2018-06-19 from the manufacturer.

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

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 "Approval Procedures for, Life Saving Equipment and Structural Fire Protection Products (TP 14612)", DNV GL confirms that the product/s listed in this certificate is/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.