



Certificate No:
TAF00001MR

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class A Door

with type designation(s)
A-0 Class Sliding Door for Elevator

Issued to
Ushio Korea Co., Ltd.
Busan, Korea, Republic of Korea

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 an integrated part of fire retarding division of class A-0.

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

This certificate is recognized by Transport Canada.

Issued at **Høvik** on **2022-06-17**

This Certificate is valid until **2027-06-16**.

for **DNV**

DNV local station: **Gimhae Station**

Approval Engineer: **Marcin Tobiasz**

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

"UKE-SLD2-A0"

Is a double leaf sliding door for elevator consisting of an insulation core of 50 mm thick mineral wool (density 140 kg/m³, manufactured by Byucksan Co. Ltd.) fixed to 1.5 mm thick mild steel sheets by means of adhesive. The door incorporates a 6 mm thick door cam interlock.

Total door leaf thickness is 63 mm.

The four-sided door frame and sill are made of 1.5 mm thick mild steel and bolted to the bulkhead (M8x15, c/c max. 200 mm). The door construction is fitted with door carriers, roller devices, guide rails, locking arrangement and closing system. The door head is made of 3.2 mm thick mild steel.

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

Application/Limitation

Approved for use as a lift-landing door of class A-0.

Restricted application: Mounted on unexposed side only.

Maximum door leaf size: 1260 mm x 2150 mm (W x H).

Maximum clear door opening: 1200 mm x 2100 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 door 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. KOMERI-0402-22T0071(E) dated 11 February 2022 from KOMERI, Busan, Korea.

Drawing Nos UKE-SLD2-A0-1/2/3/4/5 dated 07 December 2021 from the 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 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 Program DNV-CP-0338, Section 4.