DNV·GL

Certificate No:
MEDB000009N

EC-TYPE EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2014/93/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the Fire Doors

with type designation(s)
AMDL3C-Marine A-0

Issued to
Kone Corporation
HELSINKI, Finland

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/3.16 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2/and IMO 2010 FTP Code
Further details of the equipment and conditions for certification are given overleaf.

Høvik, 2015-10-12
for **DNV GL AS**

This Certificate is valid until
2020-10-11

Notified Body No.: **0575**

Vidar Dolonen
Head of Department

DNV GL local office:
Helsinki

Synnøve Bolstad Eri
Surveyor

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Job Id: **344.1-002070-13**
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Product description

"AMDL3C-Marine A-0"
is a four leafed sliding door. The door blades are constructed from 1.25 mm thick steel plates coated with 0.8 mm thick zinc-coated mild-steel plate or stainless steel plate. On the unexposed side, each door blade is fitted with a 0.8 mm thick vertical steel chute (height from bottom of door blade: 1720 mm).

The two middle door blades are fitted with stepped rebates on the vertical facing sides. Between bulkhead and the two outer door blades, on both horizontal and vertical interfaces, overlapping L-section profiles are fitted. Remaining openings between the L-section profiles are closed with silicone sealant.

The individual door blades are guided by a self-closing carriage system, which is fitted above the door. Mineral wool of type "PAROC Marine slab 30" (manufactured by Paroc Group Oy), density 30 kg/m³, is fitted between carriage system and bulkhead. Below the door, the individual door blades are guided in a rail system. The carriage system is welded to the bulkhead.

Please see drawing mentioned under Type Examination documentation for more details.

Application/Limitation

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

Max. size of door blade:	577.5 mm x 2509.5 mm (W x H)
Max. clear opening:	2200 mm x 2500 mm (W x H)

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity. This requirement may also be applicable for surface materials used, if required by relevant rules and regulations.

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

Type Examination documentation

Test report No. 20150490 dated 9 July 2015 from MPA Dresden GmbH, Germany.

Drawing No. 50313518 dated 20 November 2014 (pages 3, 4, 5), 3 February 2015 (pages 1, 2) and 4 February 2015 (page 6) from the manufacturer.

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, Mark of Conformity and USCG approval if applicable (see page 3).

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.

USCG Approval

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005.