

DECISION ON TYPE APPROVAL



Granted on 19 February 2016

In effect until 18 February 2021

Pursuant to section 5 of the Act on the Type Approval of Certain Construction Products, and taking into account the provisions of Chapter 2 of the same Act and the provisions of section 1 of the Decree on the Type Approval of Certain Construction Products issued by the Ministry of the Environment (555/2013), VTT Expert Services Oy has granted the following type approval.

PRODUCT

Pisko Escape Hatch EI 60

The square balcony ladder hatch consists of a top and bottom cover, and a foldable emergency ladder in the space between them.

The hatch is manufactured according to drawings JA00006200, JA00006201, JA00006202, JA00006203, JA00006204, JA00006140, JA00006142 and JA16460, JA00006166, JA00006168, JA00006169, JA00006173, JA00006193, JA00006196 and JA16461, JA00006170, JA00006175, JA00006176, JA00006179, JA00006180, JA00006187, JA00006188, JA00006189, JA00006191, and Fire wool dimensioning instructions (12 January 2016) JA00006145, JA00006144, JA00006156, JA00006158, JA00006159, JA00006161, JA00006163, JA00006198, JA00006199, installation instructions version 1.1 (15 February 2016).

MANUFACTURER

Lapuan Piristeel Oy, Lapua, Finland.

SCOPE OF THE APPROVAL

This approval verifies that the aforementioned hatch meets the requirements imposed for doors in the National Building Code of Finland, as follows.

- the hatch belongs to the fire class EI₁ 60, when the classification is made in accordance with the standard SFS-EN 13501-2.

TERMS AND CONDITIONS FOR THE APPROVAL

Dimensions and structure of the hatch

The inner dimensions of the frame are 800 mm x 800 mm, and the frame is made of 2.5 mm thick steel L profile, the size of which is 45 mm x 65 mm; according to the drawings, it is mounted to the edge of the opening in the concrete slab with four 7 mm x 50 mm steel screws.

The cover plate of the top cover of the hatch, 896 mm x 896 mm in size, is made from 5 mm thick, painted aluminium plate. The cover plate sits free on top of the edges of the opening.

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The size of the bottom cover of the hatch is 883.5 mm x 883.5 mm, its thickness is 1.5 mm and area 0.78 m². The bottom hatch is made from 1.5 mm thick sheet metal, and it is insulated by two, 30 mm thick Isover PKOL-30 mineral wool layers. Incisions made in the mineral wool plates for installation or the seams must not overlap each other, and the plates must be installed cross-wise, in line with the dimensioning instructions supplied by Palovilla. The bottom hatch is mounted from the ladder attachment side with two Ø8 mm x 100 mm bolts to the fastening and hinge rods of the ladder, and fastened from the opposite edge with a trigger latch.

The size of the hatch can be enlarged such that the size of the bottom cover is a maximum of 1,016 mm x 1,016 mm; however, the area of the cover can be no more than 0.94 m².

The size of the bottom cover can be reduced such that the size of the hatch is no less than 442 mm x 442 mm.

There may be an escape ladder in the space between the top and bottom covers, with a length of approx. 190 cm and width of 45 cm. The frame of the ladder is made from 2.5 mm thick, painted steel. The cover hatch is mounted onto the telescopic ladder with two metal chains. In other respects, the structure of the hatch is in accordance with the drawings.

Installation

The balcony ladder hatch can be installed in the opening of the concrete or other rock slab. The thickness of the slab must be no less than 200 mm and its density no less than 800 kg/m³. The size of the installation opening can be no more than 20 mm larger than the corresponding inner dimensions of the hatch frame.

The gap between the frame and the concrete slab is insulated with Sikaflex 11 fc sealing compound. The hatch must be installed and fastened in the opening, according to the drawings.

There must be hatch installation instructions on the installation site that contain installation and mounting instructions for the hatch, as well as operating instructions.

Other terms and conditions

The operating instructions for the hatch must also be submitted to the party responsible for the use of the building.

CERTIFICATION OF QUALITY CONTROLL

Quality certified by

VTT Expert Services Oy, Espoo, Finland

Quality certification agreement

Quality certification agreement no. VTT-A-00080-15 was signed on 2 November 2015 or has been updated since then.

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MARKINGS

The following permanent markings must be made in metal plates mounted on the bottom hatch and frame, which can be 25 mm x 55 mm x 0.5 mm in size, for example:

- type approval marking (model enclosed)
- VTT-RTH-00016-16
- EI₁60
- manufacturer's name
- year of manufacture

PERIOD OF VALIDITY

The decision entered into effect on 19 February 2016 and will remain in force until further notice, but no longer than until 18 February 2021.

If a product is transferred to the scope of application of a CE marking, the validity of the type approval will expire.

NOTES

Pursuant to section 18 of the Act on the Type Approval of Certain Construction Products, VTT Expert Services Oy acts as the type approval body certified by the Ministry of the Environment and as the certification body accredited by FINAS (S017).

CANCELLATION OF TYPE APPROVAL

A type approval is cancelled if

- the building product does not meet the essential technical requirements of the Land Use and Building Act or provisions issued pursuant to it
- the importer or manufacturer, or an authorised representative, does not rectify deficiencies observed during the certification of quality control
- the Finnish Safety and Chemicals Agency (Tukes) has prohibited the use of the building product or ordered the importer or manufacturer, or an authorised representative, to take action in order to remove the product from the marketplace.

GROUNDINGS FOR APPROVAL

Ministry of the Environment Decree on the Type Approval of Doors

The following test descriptions by VTT Expert Services Oy, and standard:

- VTT-S-03346-11 (11.5.2011), VTT Expert Services Oy, test description
- Standard SFS-EN 1634-1:2014

APPENDICES

Type approval marking

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Instructions for request for rectification, and appeal

FOR INFORMATION

VTT Expert Services Oy, Jussi Rautiainen, PL 1001, 02044 VTT,
email:firstname.lastname@vtt.fi

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