



Windows &amp; Doors

# Lammin® EPO-A Plus balcony and terrace doors



Lammin EPO-A Plus doors are stile-structured balcony and terrace doors with aluminium profile surfaces. The aluminium exterior cladding of the door provides it with excellent protection against the weather. The door is manufactured with one glass panel only.

The doors are manufactured per the requirements of the customer and the construction site in 10-mm frame-measurement increments. They are suited to new structures and repair/renovation projects alike. The dimensions of the glass panels, colours, safety-related characteristics of the panes of glass, and additional features and equipment are always selected individually for each order and product. The order and order confirmation with the product charts cover only the product quantities and quality, surface treatments, and equipment mentioned in them.

## Dimensions

The frames are manufactured in 10-mm width and height increments. The height of the glass panel is scaled to the frame height of the adjacent window. The dimensions have to take into consideration whether the adjacent window is active or instead inactive.

### Single doors:

- Width 490-990 mm – height 1,490-2,290 mm
- Width 1,000-1,190 mm – height 1,490-2,090 mm

### Double doors:

- Width 1,190-1,790 mm – height 1,490-2,290 mm

The double door can be asymmetrical, with the minimum width for a door leaf being 400 mm.

## Raw wood material and surface finishing of wooden parts

All wooden parts of Lammin terrace and balcony doors are made from carefully selected Finnish pine, with all visible parts finger-jointed and laminated to be unwarped and branchless:

- The frame is a 54-millimetre-thick frame with double rebates, in frame widths 131, 145, 175, and 200 mm.
- The door leaf is of thickness 70 mm and width 100 mm, with sturdy door stiles that feature 14-mm wood-pin joints. The thickness of an aluminium-clad door leaf is 80 mm.
- Each door leaf is measured via CNC technology, guaranteeing high precision of the dimensions. The door comes with a five-year cross-measure guarantee.
- The threshold is of laminated Finnish birch with translucent coating.

Frames and door leaves are painted with an opaque coating. The colour tone is selected from the RR colour chart. The standard colour for the white paint is NCS S 0502-Y.

## Aluminium profiles and their surface finishing

The priming treatment for aluminium profiles is yellow chroming, and surface treatment is carried out as powder

coating in accordance with RR or RAL colours. The aluminium cladding is attached to the door with durable aluminium fastening, and attention is paid also to the material's expansion with heat. The space between the aluminium cladding and the door leaf is ventilated thanks to the structure of the fastening and the seal. The aluminium top moulding of the threshold can be removed to create a 25-mm threshold with one rebate.

## Glazing and the unglazed part

The insulation glasses of the door are FI-approved 3K elements, with thicknesses that are always at least 4 mm. The door is available with safety glazing on separate request. The glass used is white for white doors. In doors of other colours, it is grey. The height of the glass can be selected in accordance with the height of the adjacent window. The exterior surface of the unglazed part of the door is made of painted metal board, the interior is made of painted board, and the insulation is polyurethane.

## Fittings

The doors are equipped with three anti-vandalism hinges with vertical and horizontal adjustment. Those door leaves with a width of more than 10 m and with complete glazing are equipped with four hinges as standard. The locking choice available for the door is a lever bolt, lockable lever bolt, or multifunctional closing mechanism. The doors have a handle-operated stay fastener as standard equipment with the lever handle. The double doors have two barrel bolts. Thanks to the sturdy leaf structure, the door can also be equipped with an LC102 lock case. In this case, a specially manufactured wide striker plate is used. The fitting range also includes security-lock cases. Alternatively, all locking options can be selected with surface fittings and lock cases that are pre-installed at the factory.

## Draught exclusion (weather strips)

Double weather strip with a special seal whose structure continues uninterrupted around the door corners. The seal is white for white doors and black in others. The threshold is equipped with wear-proof shaped rubber seal.

## U value

The overall U value for a single door of the product is 0.84 W/m<sup>2</sup>K. The coefficient of thermal transmittance has been determined in accordance with the standard SFS-EN 14351-1 + A1.

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