



Windows & Doors

Lammin® REPO-A inward-opening French balcony doors



Lammin REPO-A doors are inward-opening French balcony doors with a stile structure and aluminium profile cladding. The aluminium exterior cladding of the door provides it with excellent protection against the weather.

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, models and colours of the door, energy-efficiency of the glass parts, safety characteristics of the glass, and additional features and accessories are always selected individually for each customer.

The offer 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 treatment 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: 42 mm thick, frame width 93 mm
- The door leaf: thickness 70 mm and width 112 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 with 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, and the front edge is equipped with an aluminium water-stop.

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 aluminium profiles have priming treatment, and surface treatment is implemented as powder coating in 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. A solid wood threshold with a groove on the front edge for installing the flashing.

Glazing and the unglazed part

The glass panels of the door are SFS-approved 3K elements, and their thicknesses are always at least 4 mm. The sound insulation doors are equipped with either 6-mm glass or laminated glass, depending on the performance profile of the door. 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 polystyrene.

Fittings

The doors are equipped with three anti-vandalism hinges with vertical and horizontal adjustment. Door leaves with a width of more than 10M and with complete glazing are equipped with four hinges as standard.

The locking choices available for the doors are a lockable lever bolt, or multifunctional closing mechanism. The doors have a handle-operated stay fastener as standard equipment with the lever handle. Double doors have two barrel bolts.

Thanks to the sturdy leaf structure, the door can also be equipped with an LC102 lock case. The fitting selection 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. There is one seal at the threshold.

U value

The overall U value for a single door of the product is 0.92 W/m²K.

The coefficient of thermal transmittance has been determined in accordance with the standard SFS-EN 14351-1 + A1.

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