



Windows & Doors

## Lammin® thermal exterior doors as double doors



Lammin thermal exterior doors are outward-opening models tailored to the needs of the customer, with frame measurement available in 10-mm increments. In addition to the dimensions and the door model, the customer selects the best frame depth, colour, and fittings for the application, product-specifically and individually, from among several options provided by Lammin. The doors are suited to new structures and repair/renovation projects alike.

Providing very good heat insulation, the structure of Lammin doors is designed for use in entrance doors to flats or heated storage spaces. If the door width is 1,790 mm, the height can be as great as 2,290 mm. If the door is wider but still not more than 2,460 mm wide, its height can be as great as 2,090 mm.

The order and order confirmation with the product charts cover only the product quantities and quality, surface treatments, and equipment mentioned in them.

### Raw wood material and surface finishing of wooden parts

All wooden parts of Lammin thermal exterior 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 the following frame widths: 121, 135, 165, and 190 mm.
- The door frame is made of glued, finger-jointed laminated pine, with a door thickness of 70 mm.

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.

The threshold is 38 mm with a double rebate and thermal break, and the front edge of its aluminium profile is equipped with 'snap-in' attachment for mounting of the flashing. Alternatively, a 25-mm threshold with one rebate/strip may be used. The threshold is painted with a translucent coating.

### Glazing and the unglazed part

The insulation glasses of the door are FI-approved 3K4 insulation-glass elements wherein the innermost and outermost panes are low-emissivity glass and the middle one is Stippolyte decorative glass. Argon gas is used between all panes of glass.

The door surfaces are HDF boards on both inside and outside; the pattern varies in accordance with the product in the range. The warm and sturdy thermal-door structure is composed of veneer and aluminium sheets on both sides, with a polystyrene sheet as insulation.

The heat-insulation value is 0.50 W/m<sup>2</sup>K at the insulation and 0.72 W/m<sup>2</sup>K at the panes.

### Fittings

The hinges (N 3248-110TMKSS) are anti-vandalism hinges that are adjustable vertically and horizontally (3 pcs, delivered as standard). The surface treatment for doors painted white is white, and for other door colours it is clear.

The doors are equipped with an Abloy LC102 lock case and a striker plate of type LP 711. The fitting range also includes security-lock cases.

The inactive portion of a double door is equipped with barrel bolts.

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

At the insulation, 0.50 W/m<sup>2</sup>K; at the pane, 0.72 W/m<sup>2</sup>K.

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