



Windows & Doors

## Lammin® Plus thermal exterior doors



Lammin Plus thermal doors are highly suitable for new structures and also for repair or renovation work in which very good thermal insulation is required. All Lammin thermal doors (except stile-structured doors, such as the EPO-A product) are available also with the thicker, 90-mm PLUS structure.

Lammin Plus thermal entrance doors are outward-opening doors tailored to the needs of the customer, with frame dimensions available in 10-mm increments. The Lammin Plus door structure is designed to be used for entrance doors to flats or heated storage spaces.

### Dimensions

If the door width is 990 mm, the height can be as great as 2,290 mm. If the door is wider but still not wider than 1,190 mm, the height can be as great as 2,090 mm.

### 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, with frame widths 165 and 190 mm.
- The door leaf is made of glued, finger-jointed laminated pine. Door thickness is 90 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 SFS-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 filling is used between all panes. The glass element is 10 mm thicker than the glass element of the standard door – the total thickness is 46 mm.

The door surfaces are HDF boards, and the pattern varies in accordance with the product in the range – the inward-facing surface is offered without any pattern.

The warm and sturdy thermal-door structure is composed of veneer and aluminium sheets on both sides, with a polystyrene sheet as insulation.

### Fittings

The hinges (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 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

The overall U value of a single door of the product is 0.70 W/m<sup>2</sup>K (glazed doors) or 0.59 W/m<sup>2</sup>K (unglazed doors).

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

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