



Windows & Doors

Lammin® sound-insulation doors with aluminium cladding



Lammin stile-structured sound-insulation doors are manufactured with a focus on the customer, just as the other Lammin doors are.

The door structure has been tested by Finnish certification authority VTT, and true Finnish quality is the hallmark of Lammin doors, both in the materials and in their testing. You can select the performance rating for your doors in line with the door structure: $R_w = 36$ dB, $R_w = 38$ dB, or $R_w = 39$ dB.

The doors are manufactured per the requirements of the customer and the construction site, with 10-mm increments in the frame dimensions. They are suited to new structures and repair/renovation projects alike. The dimensions of the glass panels, door models, colours, safety-related characteristics of the glasses, 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.

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.

Performance

	EPO-A 36 dB	EPO-A 38 dB	EPO-A 39 dB
Airborne noise	$R_w = 36$ dB	$R_w = 38$ dB	$R_w = 39$ dB
Aircraft noise	$R_w+C = 35$ dB	$R_w+C = 37$ dB	$R_w+C = 38$ dB
Road-traffic noise	$R_w+C_{tr} = 33$ dB	$R_w+C_{tr} = 34$ dB	$R_w+C_{tr} = 35$ dB

Aluminium profiles and their surface finishing

The priming treatment used for aluminium profiles is yellow chroming, 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.

The threshold features 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. The top moulding of the threshold can be removed to create a 25-mm threshold with one rebate.

Glasses and glazing

The insulation glasses of the door are FI-approved 3K glass elements, and their thicknesses are always at least 4 mm. The sound-insulation doors are equipped with either 6-mm glasses or laminated glasses, 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 unglazed part is polystyrene.

Fittings

The sound-insulation doors are equipped with four anti-vandalism hinges with both vertical and horizontal adjustment. The locking choice available for the door is a lever bolt, lockable lever bolt, or multifunctional closing mechanism. 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 0.99 W/m²K. The coefficient of thermal transmittance has been determined in accordance with the standard SFS-EN 14351-1 + A1.

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