

Sectional door



Thermo 80 mm

Maximum insulation by Novoferm

Properties

- max. B x H = 8000 x 6000 mm, max. surface area (BxH) = 42 m²
- U-value Thermo 80 mm sectional door: 5000x5000 mm: 0,49 W/m²K
- wind load resistance class 3-4 according to EN 12424, or up to 12-13 Beaufort (118 - 149 km/h)
- standard sections with microline profiling at no extra cost
- manual or electrically operated
- EN13241 compliant



Thermo 80 mm

The Thermo 80 mm sectional door is Novoferm's best insulating door. It combines excellent thermal and sound insulation properties with modern designed micro-profiled panels. The door can always be perfectly configured for any situation. Choose the required height, width and window type, and make a choice from options like RAL color panels, wicket door or remote control.

Dimensions	
max. width (W)	8000 mm
max. height (H)	6000 mm
max. surface area	42 m ²
max. wind force	Class 3-4
section thickness	80 mm
μ value at 5.000 x 5.000 mm	0,49 W/m ² K (completely shut)



Components and construction

The Thermo 80 mm sectional door consists of horizontal panels that slide under the ceiling or up vertically on a rail system. The connection between the sections is wind- and waterproof. Since all connections between the metal surfaces have plastic insulation, the Thermo 80 mm is fully thermally insulated. Torsion springs balance the door's weight, making manual operation possible. The Thermo 80 mm is available with rail system T450, T400, T500 and with the HF versions as well.

Materials

- thermally separated, galvanized steel sandwich panels, insulated with polyurethane foam (CFC-free)
- panel thickness 80 mm
- thermally separated end caps in galvanized steel
- rails made of Sendzimir galvanized steel
- door fittings in galvanized steel
- rollers with nylon wheels and 11 mm steel shaft
- steel cables with sixfold safety
- plastic handle and foot bowl in the bottom section of manually operated doors
- multiple top, side and bottom seals of insulating rubber
- seal between the panels of insulating material

Surface treatment

- the exterior side of the panels has a microline profiling and a polyester-coating in RAL 9002, RAL 9006 or RAL7016. Other RAL colors available ¹⁾
- the interior side of the panels has a horizontal stucco profiling and a polyester-coating in RAL 9002. Other RAL colors available ¹⁾

Window and panel options

- windows with straight corners and quadruple insulating glazing ¹⁾

Drive

Manual control with cord or chain reel, or an electric motor with reduction gear. The control unit is available as standard with deadman's control, pulse control or remote control.

Technical details electric drive

- power.....1N-230V-PE / 3-230V-PE / 3N-400V-PE / 3-400V-PE
- powerfrequency: 50 / 60Hz
- degree of protection IP54

Protection

- emergency hand chain hoist at operating height
- spring break protection
- slack cable protection
- according to EN 13241
- standard double opto sensors

Control and operation

The control system has 3 buttons (open-stop-close) and regulates a multitude of functions such as:

- adjustable open time or 'deadman operation'
- 'half height' setting (for persons or small goods transit)
- service and run mode
- 7-segment display for controlling the various functions
- choice of permanently open or permanently shut

Other forms of operation that can be connected to the standard control box:

- operation by pull switch, key-operated switch, push-button, photocell, radar, induction loop detection or by remote control



Available control box:

T75/T100

Structural provisions and connection (by others)

- separate technical data sheets detailing dimensional and structural requirements are available for all designs and track systems
- an extra side room is necessary of 2 x 12,5 mm
- if an electric motor is specified, a CEE plug socket must be installed within 500 mm of where the motor and/or control unit will be positioned (1N-230V-PE / 3-230V-PE / 3N-400V-PE / 3-400V-PE, by others)
- with standard CEE-plug, the control box is IP54 compliant

Options / accessories ¹⁾

Control and operation

- additional controls as described above
- control box directly wired (control box IP65)
- main switch directly wired on the control box (IP65)

Protection

- leading photocell (without wiring at the door)
- cable break protection
- anti lift protection
- connection of traffic lights (red/green or red and green)
- warning flash light (orange or red)
- heavy shoot bolt with spring return

Construction

- customer-specified RAL coating on inside and/or outside of the sections (with the exception of fluorescent and traffic colours)
- adjusted wind restriction
- 30.000 or 60.000 cycle springs

¹⁾ subject to surcharge



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