

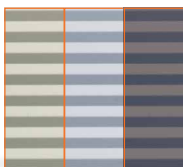
Sectional door

Insulated industrial exterior door

80 mm thick thermally decoupled profiles

Available with separate windows or window sections with aluminum window frames

Exterior sections fitted with stylish Microline finish, as standard in RAL 9002, 9006 or 7016



Other RAL Colors available (Optional)

Interior standard in RAL 9002
Other RAL Colors available (Optional)

Optimal bottom sealing with double sealing profile

double top seal

Completely thermally insulated with plastic seals between all metal surfaces

Wind- and waterproof connection between the sections



ISO 80 mm

The maximum insulation between climate zones

Properties

- max. B x H = 8000 x 6000 mm, max. surface area (BxH) = 42 m²
- U-value ISO 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

ISO 80 mm

ISO 80 mm sectional doors are the best insulating and sealing overhead doors for places where the separation between climate zones is crucial. Do you want to keep your production or storage at an evenly temperature, the ISO 80 mm is the right choice. The steel panels are micro profiled in-house and have superb sound absorbing and heat-insulating properties and are extremely weather resistant.

Dimensions	
max. width (W)	8000 mm
max. height (H)	6000 mm
max. surface area	42 m ²
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 ISO 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 ISO 80 mm is completely thermally insulated. Torsion springs balance the door's weight, making manual operation possible. The ISO 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 RAL 7016. 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⁾
- ALU panels for more visibility (maximum 3 pieces, maximum width 6000 mm)

Drive

Manual control with cord or chain reel, or an electric motor with reduction gear. The control unit is available as standard with dead-man'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
- anti lift protection
- according to EN 13241
- standard double opto sensors

Control and operation

- control voltage: 24Vdc
- mains supply external devices: 24Vdc (350mA) / 230Vac (1,6A)
- status and information display (including 6 most-recent faults)
- maintenance-cycle counter
- force monitoring in OPEN direction: sudden changes to the counter-balancing are detected. Self-learning feature and consequently no activation of force monitoring function due to, e.g., a change in spring tension
- automatic detection of direct inverter (DI) or frequency inverter (FI). Setting of output speed, soft start, soft stop, braking ramps, etc. is possible

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

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



Available controls:

TS971, TS981

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 of 2 x 12,5 mm is necessary
- if an electric motor is specified, a CEE plug socket must be installed within 1 m of where the 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 available at surcharge
- control box directly wired (control box IP65)
- main switch directly wired on the control box (IP65)

Protection

- leading photocell (without wiring at door)
- cable break protection
- anti lift protection
- connection of traffic lights (red/green or red and green)
- warning flash light (orange)
- 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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