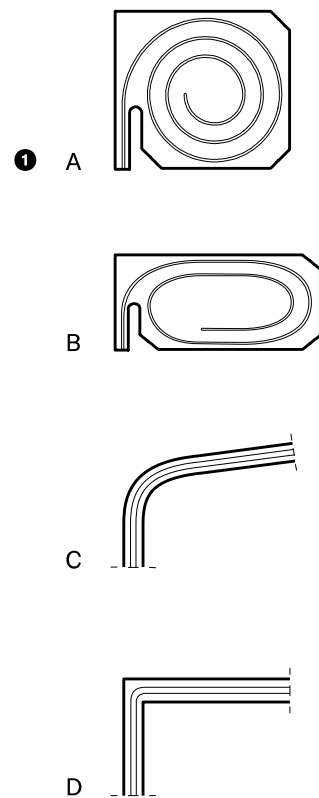
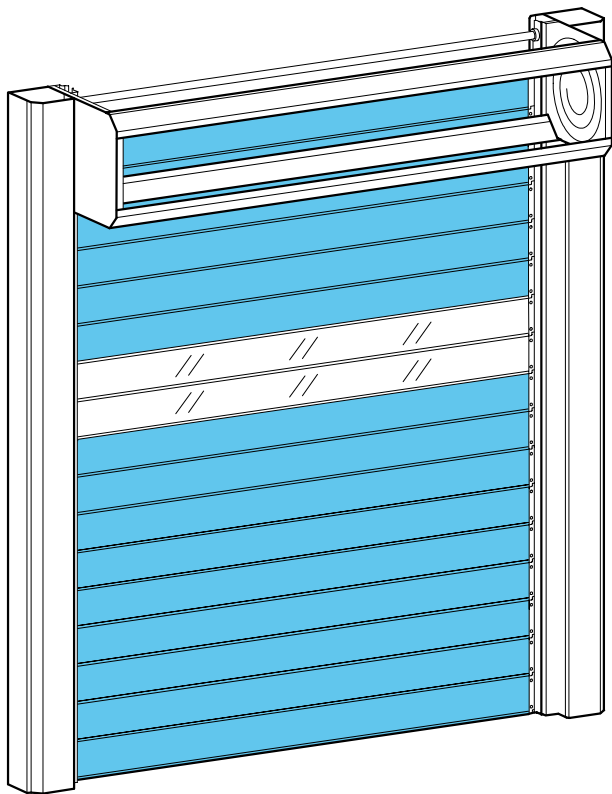


Spiral



Spiral High performance door with insulated rigid leaf, rolling in patented spiral guides made by high density polyethylene, to assure smooth and noiseless high speed motion.

The rigid panels with 50mm thickness are made by steel or aluminium double sheets, with internal insulating foam: High wind-load resistance up to class 4.

The automation includes a 400 V three-phase motor and inverter driver, balanced by counterweight. Door and standard safety devices conform to EN13241-1.

❶ Patented winding guides with various rollup designs.

A Circular sliding (standard): best solution to reach high motion speed with smooth and silent movement of the door leaf.

B Elliptical sliding (reduced height of the head): the overall dimensions of the beam are reduced extending horizontally the winding of the door leaf.

C Inclined sliding (custom): the position of the top guides is adapted to the dimension of the building and presence of obstacles, if any.

D Linear (over-drag): to achieve a very small frontal dimension of the beam (min. 130 mm), when you have limited heights; the traction system is in the horizontal guides to reach the complete horizontal opening of the door leaf.

❸ Accurate positioning controlled by absolute encoder.

❹ See-through visibility by transparent acrylic sections and air-through flow with micro perforated steel sections.

❺ Standard full safety by light grid.

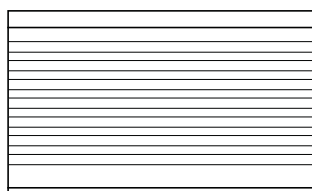
❻ Wind load resistance up to class 4 thanks to the leaf strength.

❼ Low thermal transmittance due to the internal insulation of the panels.

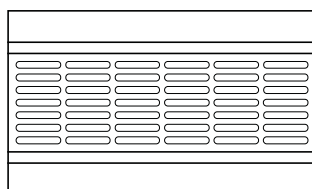
❽ High opening speed controlled by automation with inverter.

❾ Noiseless motion.

❿ Balancing by counterweight without cycle-life (spring free).



❶ Insulated Panel ISO50



❷ Air flow - Punched aluminum



Technical features

Maximum dimensions ¹	Width × Height	6500 × 6500 mm
Maximum speed	Opening – Closing	Up to 2,0m/s
Wind-load resistance	3000 × 3000	Classe 4
	6000 × 5000	Classe 3
Thermal transmittance ²	Spiral 50	1,5 W/m ² K
	Spiral 80	0,5 W/m ² K
Panels thickness	Spiral 50	50 mm
	Spiral 80	80 mm
Panels material	Standard	Pre-painted aluminium RAL 9600
	Optional	Powder coating
	Optional	Stainless steel
Panels insulation	Standard	Polyurethane
See through section	Optional	Acrylic 4mm H 100 mm
Air flow section	Optional	Air flow (area 25%)
Side and spiral guides	Patented	High density polyethylene
Frame covering	Standard	Galvanized steel
	Optional	Powder coating
	Optional	Stainless steel
Motor position	Standard	Horizontal fitting
	Optional	Built-in
Motor power	Three phase	1,5/2,2/3,0 kW
Control unit	Inverter	400 V – 50/60 Hz
Protection degree	Motor/Control unit	IP54
Position transducer	Standard	Encoder
Safety devices	Full safety system	Light grid
Emergency opening	Standard	Chain hoist
	Optional	UPS
Durability (total life)	EN 12604	1 million cycles

1 For extra-size dimensioning contact the Technical Dept.

2 Average performange according to the size.

