



Helix / S600



The superfast and space-saving Spiral-door

Alpha sets itself ambitious targets in the areas of insulation, noise and pricing. Our research & development department has succeeded in developing an unprecedentedly fast sectional door that also offers exceptional insulation performance: the Alpha Helix. Specially designed rollers keep noise to a minimum. This patented system also contributes to the sleek design of the Alpha Helix.

Traditionally, two doors are often mounted in frequently used exterior openings; an insulated door for use at night and a high speed door that is used during the day. The new Alpha Helix / S600 combines the best of both worlds in a single product. An investment that pays for itself in next to no time!

The S600 has the identical drive system as the Helix Spiral door but has a standard track system. This door opens 6x faster as a similar sectional door but can be installed into a headroom of only 600 mm. The S600 can also be equipped with a high frequency drive which increases the opening speed from 1.1 m/s to 1.5 m/s over 9x faster as a similar sectional door, "So Superfast".

The Helix has a standard section height of 366 mm, however with the S600 we can also use a section height of 488 mm in both ISO and ALU sections.



U-value Helix/ S600 ISO 40 mm sectional door: 5,000 x 5,000 mm: 1.05 W/m²K
 U-value Helix/ S600 ALU 40 mm sectional door: 5,000 x 5,000 mm: 4,25 W/m²K

The best of all Worlds, the Helix and S600

Speed

The Helix, Spiral-Door opens 6 x faster than similar sectional doors and is therefore extremely suitable in an environment where you have intensive logistic movements.

This door opens fast and depending on the door size up to 1.1 M per second and real savings on the energy cost can be achieved.

Energy-saving

The door leaf has a thickness of 40mm and a U-value of 1.5 / m²K (ISO panels / door leaf 5000 mm x 5000 mm). Additionally where requested we can provide high quality full width ALU vision sections.

Space-saving

The Helix Spiral Door is a revolutionary innovation and thanks to the spiral system and chain drive does not require extended backroom. To minimize wear and tear the Spiral action of the door means the panels do not touch, roll or fold upon them-selves. The Helix offers a solution in a room where the ceiling construction does not allow track hangers for a regular sectional door.

Durability

Because of the intelligent drive-system without counterbalance, the Helix Spiral door does hardly need any service upto 200.000 cycles.

Scopes

- Logistics
- Automotive industry
- Machine building
- Metal- and electrical-industry
- Food-industry
- Chemical and pharmaceutical industry



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Section Joint

The joint between the ISO and ALU sections is wind and watertight to (class 3-4 wind load)



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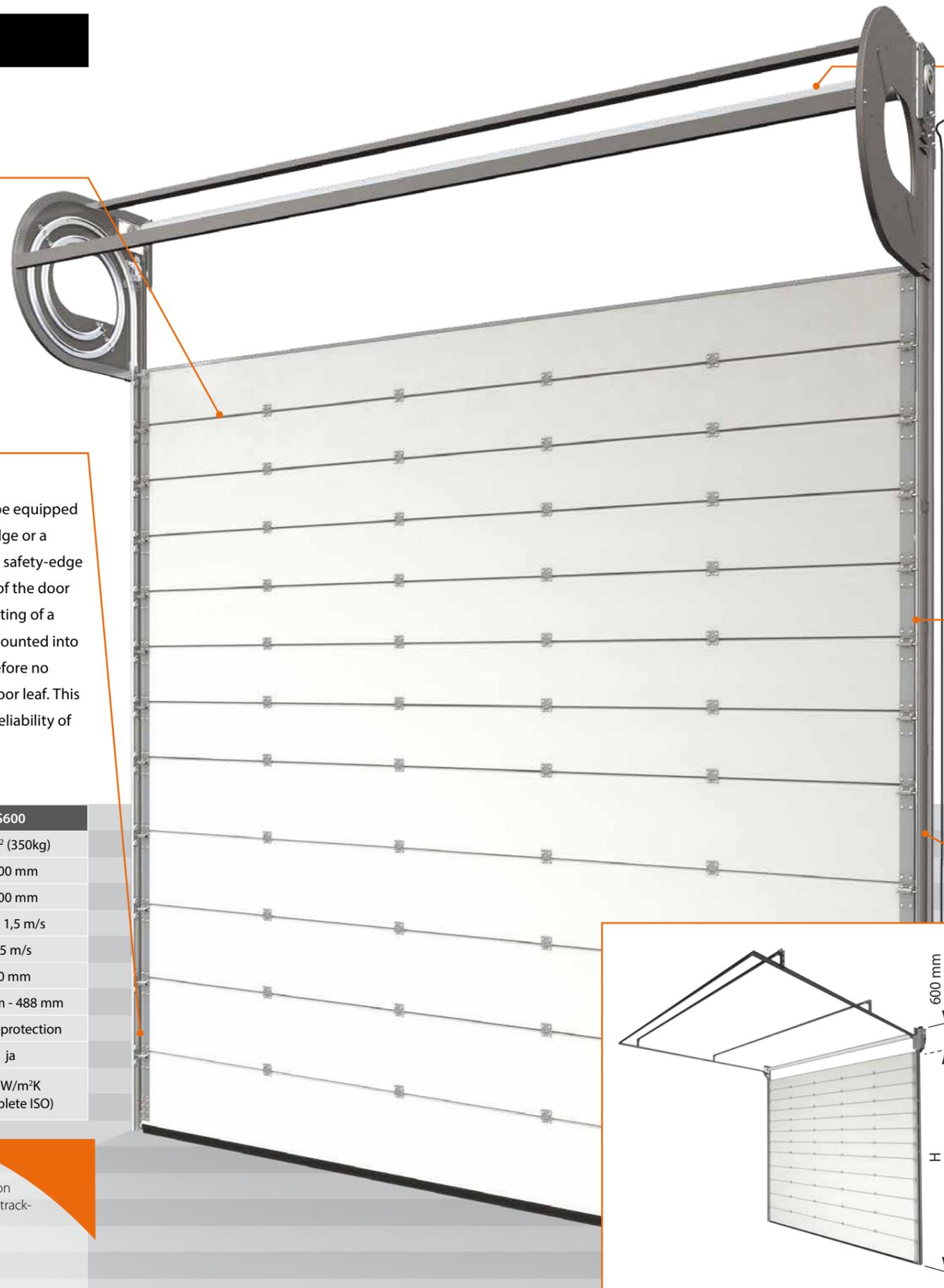
Safety

The Helix as the S600 can be equipped with pre-running safety-edge or a light-grid. The pre-running safety-edge is mounted in the bottom of the door leaf. The light-grid is consisting of a receiver and transmitter, mounted into the track system, and therefore no wiring is required on the door leaf. This improves the operational reliability of this superfast Door.

Specifications	Helix	S600
Max. Door leaf-surface	25 m ² (350kg)	25 m ² (350kg)
Max. Width	5000 mm	6000 mm
Max. height	5000 mm	5000 mm
Opening speed	1,1 m/s	1.1 - 1,5 m/s
Closing speed	0,5 m/s	0,5 m/s
Section-thickness	40 mm	40 mm
Section-height	366 mm	366 mm - 488 mm
Section-Joint	Finger-protection	Finger-protection
ALU-sections option	ja	ja
U Value at 5.000 x 5.000 mm	1,5 W/m ² K (complete ISO)	1,5 W/m ² K (complete ISO)

FEATURES AND BENEFITS

- Low maintenance (200,000 cycles) Springless system.
- Pre-running safety-edge or light-grid (no wiring on the door leaf).
- Class 3-4 Wind load.
- High insulation value.
- Quick and simple installation because of pre-assembled track- and drive-system
- High opening speed.



Helix

Torque-tube

The Helix Spiral Door and the S600 are equipped with a direct drive aluminium Torque-tube and is without spring assistance.



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Installation space

The Helix Spiral Door coils itself up against the interior facade of the building and the build in space is 1100 mm x 1100 mm at the head, 550 mm on the drive side and 110 mm on the non drive side.



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Compact Side-hinges

For extra safety the panel connecting hinges are almost flat and ensure a perfect seal with the vertical side seals



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Drive-concept

The uninterrupted chain-/ steel-cable system ensures precise and controlled door-movement even at high speed.

