

Sectional doors

Sectional doors are a perfect solution for air-conditioned business premises thanks to the **energy saving** that their **insulating capacity** ensures. They open vertically upwards, moving the panels below the roof horizontally. **Thanks to this it will always be possible to install them** regardless of the space available.

They constitute the most practical and safe solution for loading and unloading tasks, since **they avoid possible falls and occupy the minimum space**. The way they adapt to the roof will allow a high level of functionality and space optimisation. Another advantage of this type of door is its high **thermal and acoustic insulation power**.



Characteristics

- ✓ **Safety:** all the doors comply with **standard DIN EN 13241-1**. With systems that stop the door falling when springs break, as well as a system to stop fingers being jammed, both inside and out.
- ✓ **Durability:** galvanised steel sheeting and exterior finishes that are highly resistant.
- ✓ **Confort:** **effective thermal and acoustic insulation** thanks to its insulating core of polyurethane and the sealed joints between panels for garage doors.
- ✓ **Adaptable:** this model has several **opening possibilities to achieve** maximum use of space.
- ✓ **Customisable:** there is a wide variety of panels, textures and colours, in order to choose the industrial door that best suits your tastes and requirements.
- ✓ **Quality:** UNE –EN 13241-1.

Technical description

Panels

- ✓ **Panels for industrial doors with a double wall** of galvanised steel sheeting, separated by polyurethane foam insulation.
- ✓ **An insulating core of rigid polyurethane** not containing CFCs with an average density of 40 kg/m³.
- ✓ **EPDM seal** that provides impermeability and air-tightness between the panel joints for industrial doors.
- ✓ Finished on the **inside face** in polyester paint.
- ✓ **Finished on the outside face with:**
 - Thermo-hardened polyester paint of 25 micras.
 - Semi-rigid polyolefin / vinyl chloride film of 140 micras, decorated using a rotogravure printing process, for imitation timber finishes.



Interior finish

- ✓ **Galvanised hinges and accessories.** The intermediate and side hinges, the base plate, upper bridge and side housing are all galvanised.
- ✓ **Each component is of the highest quality.** Like the powder-coated dock, a sandblasting treatment with tiny balls at more than 300 km/h to eliminate surface imperfections increases the dock's useful life by more than 40%. After this treatment, the surface is lacquered in blue RAL 5014.

Seals on four sides

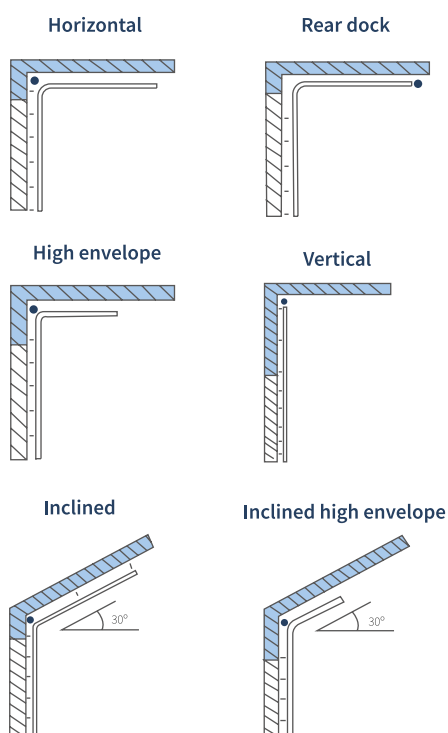
- ✓ **Rubber seals** on the side frames.
- ✓ High-quality EPDM © rubber profile at the bottom of the door.
- ✓ Rubber seal on the upper aluminium profile .
- ✓ All of these joins along with the seal between panels offer a high degree of air-tightness, thermal and acoustic insulation.



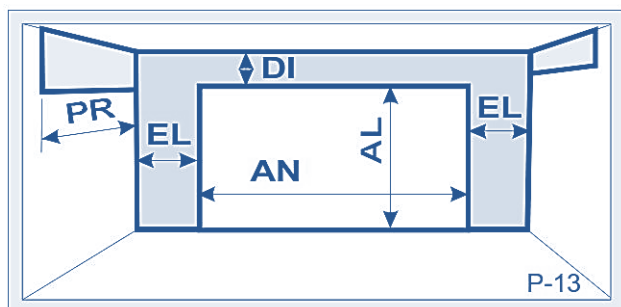
Composed by:

Elevation types	• Weight compensation through an assembly of torsion springs. • Safety device against spring breakage. • Cable drums and side loading cables. • Safety device against cable breakage. • Springs are powder-coated and painted in blue for a better response to fatigue and improved rustproofing.
Guide type	• Of galvanised steel with a reinforced side bracket with a side trim support.
Door panel	• Double-faced panels of galvanised steel with intermediate thermal and acoustic insulation of polyurethane foam 40 mm thick. Standard heights of 500 and 610 mm. • Interior and exterior sheeting with stucco embossing. • Interior of the panels reinforced for lasting grip of side and central hinges. • Anti-finger-jamming system in the joins between panels according to European standard EN 12604. • High-quality EPDM rubber on the top and bottom of the panel to provide impermeability and air-tightness.
Fittings	• Of galvanised steel.
Reinforcements	• Double hinges and support brackets for widths greater than 5 metres.
Quality	• According to the European standard UNE –EN 13241-1.

Elevation types



Dimensions:



EL: Espacio lateral (para las guías.) El hueco mínimo necesario para la instalación es de 80 mm (K). En caso de montaje entre muros se recomienda un ancho mínimo de 100 mm (L).

Assembly measurements:

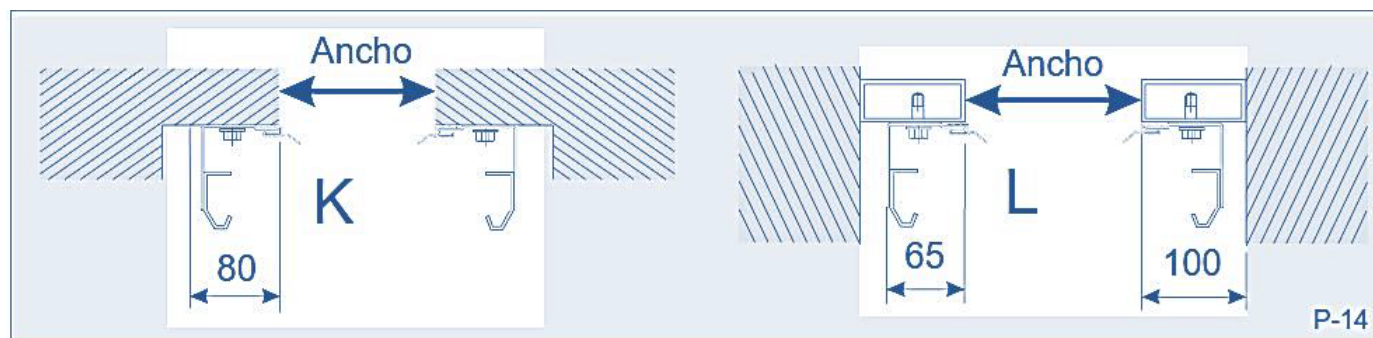
AN: Measured width of the door space. Ordered width.

AL: Measured height of the door space. Ordered height.

DI: Space above the door space.

EL: Minimum sideroom. 100 mm in assemblies between walls. 80 mm in assemblies behind a cavity. In the place where the shaft sits, more space is needed.

PR: Depth of door housing.



Installation:

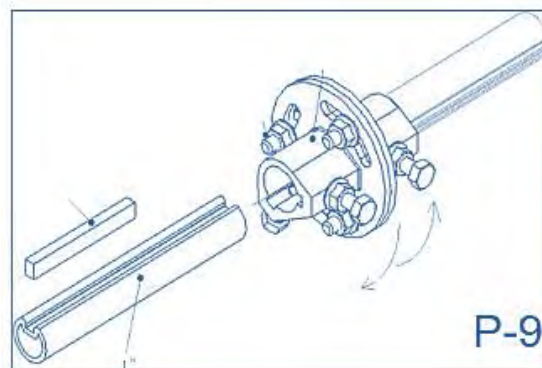
Each component in the door is designed to achieve the optimum function, with a fast, safe assembly.

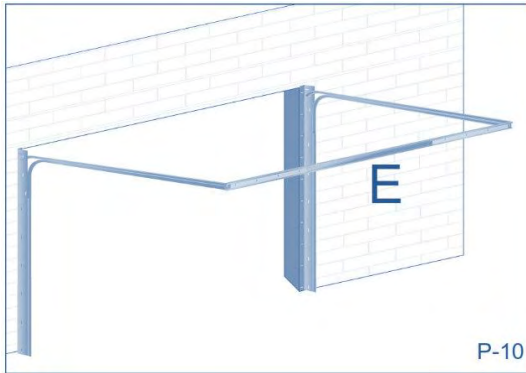
Pre-assembled shaft:

The torsion springs come mounted against spring breakage and preassembled on the shaft, alongside the drum, except those of larger sizes.

Split shaft:

For better handling of the shaft it comes in two parts, with an adjustable join in the centre (Figure 9) so that minor unevenness in the door assembly can be adjusted.

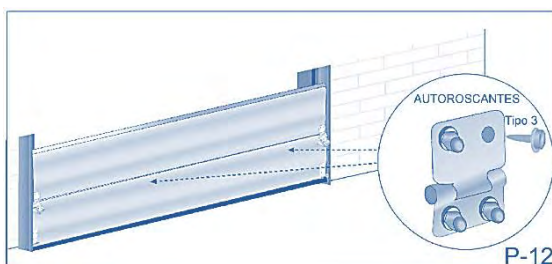
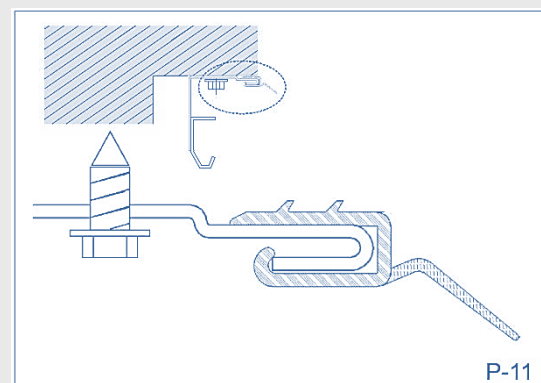


**Rear bar:**

To fix the horizontal guides, ensuring the solidity of the system and providing for the squaring of the guides. (Figure 10, E).

Reinforced side bracket:

A sturdier piece for better grip and placement of the side trim as well as space to screw into the wall without touching the panel. (Figure 11)

**Self-centring of hinges**

Pre-drilling of hinges for fast, easy adjustment (Figure 12). Fast assembly and noiseless operation.

