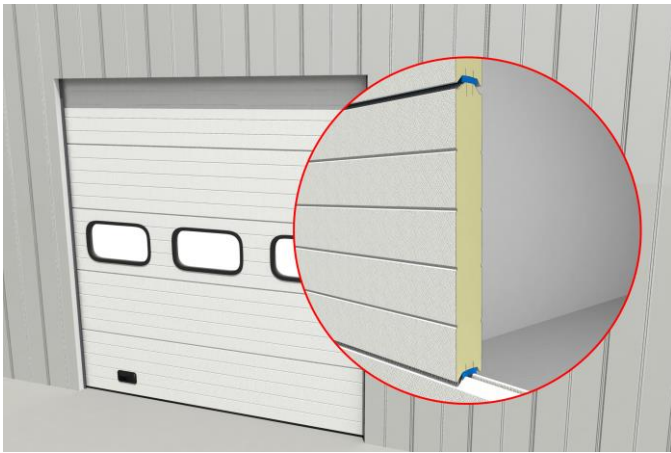


Industrial door 601N



The PowerDoor 601 is an insulated sectional door, composed of 40 mm thick, pressed steel panels, optional with finger trap protection and a HFCKW free polyurethane foam core.

Materials

The high-quality (insulated) materials and finish provide optimal isolation and durability.

The panels are constructed of 0.5 mm thick outer and inner steel plating with on the outside and inside stucco design. The panels are made up from two coil-galvanised and coil-coated steel cover sheets which are bonded together with an insulating core of rigid polyurethane foam designed to be shear-resistant. The interior of the panel is provided with an extra coating, which ensures optimal bonding with the HFCKW free polyurethane foam core. This form of insulation guarantees a high bulk density which in its turn provides an extremely favourable heat transfer coefficient and thermal resistance.

The PowerDoor 601 is fully insulated at all sides and prevents the possible ingress of rain, draughts, sand and dirt. Synthetic sealing tape with a closed core provides optimal sealing between the panels.

For lateral sealing a rubber profile is fastened to the vertical guide rails. A double rubber profile is positioned below the aluminium floor profile and a rubber top flap is provided on the upper side of the top door panel. As such an optimal sealing is created which results in energy savings and improved work conditions.

The guide rails, profiles, connecting pieces, hinges, bearing roller supports and bearing plates are completely galvanized. The guide rails are fastened, as are the other fixed connections, onto 2 mm robust profiles by means of the pressure-join technique. As such, corrosion at and near the connections and distortions are prevented.

The galvanised steel spring axle and the oil tempered torsion springs are standard and suitable for a minimum of 20.000 movement cycles. The nylon rollers and bearings are provided with a galvanised axle. The cable drums are provided with a minimum of two safety turns and six-fold factor of safety steel cables are utilised. At the end of each guide rail, spring-loaded bumpers are provided.

The PowerDoor 601 can be delivered fully glazed, as the Full Vision PowerDoor. Specifically designed for use in areas where maximum incidence of light is desired.

Dimensions

The PowerDoor 601 can be modified to comply with any client specific situation. By having a large selection of lift track systems the door can be made to measure for any opening.

The correct choice for a type of lift track system will ensure that minimal space is taken up by the door. Also, various track systems can be delivered pre-assembled resulting in quick and easy installation and maintenance.

The PowerDoor 601 can be fitted with the following lift track systems: low (Low Lift), standard (Standard Lift), high (High Lift) and vertical (Vertical Lift). The different track systems (with the exception of the vertical lift system) can also be designed to follow the pitch of the roof.

Maximal door width.....8000 mm
Maximal door height6700 mm

Operation

The PowerDoor 601 can be operated in various manners:

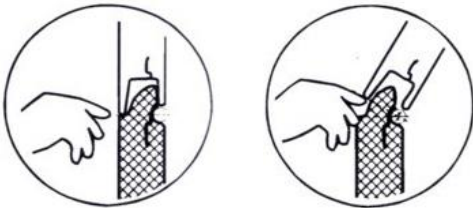
- Manual operation; The PowerDoor is provided with a pull chain, a grip / footplate and locking device.
- Chain operation; if the dimension of the door opening is larger than 17 m², the PowerDoor is supplied as chain or electric operated version.
- Electrical operation; the complete door is operated by means of two push buttons 'Up' and 'Down' plus an emergency stop switch. Through the modular concept of control panels, the door controls can easily be integrated with other equipment such as dock levellers and traffic lights. We can also offer various other types of operating methods such as remote control, infra-red sensors etc. The electrical motors are provided, as a standard, with an emergency operating system, with which the PowerDoor 601 can be opened or closed manually in case of power failure.

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The custom built torsion springs ensure that the PowerDoor 601 is always in perfect balance, which makes the operation, exertion-free regardless of which operating technique is used.

Standard safety provisions

- The PowerDoor 601 is provided with a CE-marking, a guarantee for quality and safety, in accordance with the current applicable European standards;
- Spring fracture safeguard (for manual operation or applicable for a de-clutching motor);
- Dead man push button control (for electrical operation);
- Motor protection with the aid of a thermal relay (for electrical operation);
- Control cabinet with emergency stop, in accordance with the current applicable European standards (for electrical operation);
- Slack cable protection (for electrical operation);



Application

The PowerDoor 601 is specifically designed for application in the industrial and utility building industry.

For client specific solutions there is a large selection of designs, finishes (slight colour deviations are possible), controls, built-in possibilities (lift track systems) and options which increase user-friendliness, and which improve safety and integration with other products or systems on the loading and unloading bay.

Technical specifications

Standards.....	CE
Cladding thickness.....	0.5 mm
Panel thickness	40 mm
Filling.....	Polyurethane 100% HFCKW free
Tracks and profiles.....	2.0 mm thick galvanised
Motor.....	0.37 kW
Power supply	230/400 V
Control current	24 V DC
Standard colour	RAL 9010

	Industrial panel	Panel with finger protection	Extra insulating panel
Size range	Width up to 4000 mm Height up to 3500 mm		
Resistance to wind load 1)	Class 3	Class 3	Class 4
Resistance to water penetration 2)	Class 1	Class 3	Class 3
Air permeability 3)	Class 3	Class 4	Class 4
Heat insulation 4)	14 m ² door surface area without wicket door U = 1,16 W/m ² K 14 m ² door surface area with wicket door U = 1.48 W/m ² K	14 m ² door surface area without wicket door U = 1,43 W/m ² K 14 m ² door surface area with wicket door U = 1.75 W/m ² K	14 m ² door surface area without wicket door U = 0.86 W/m ² K
Noise reduction 5)	R = 25 dB	R = 24 dB	R = 25 dB

1) EN 12424;

2) EN 12425;

3) EN 12426;

4) EN 13241, annex B EN 12428;

5) EN 717-1

The aforementioned values are dependent on the overhead door's particular specifications. The rating of the door supplied to you may vary.

Options

- Special dimensions.
- Pre-assembled door types.
- Oval/rectangular windows.
- Full Vision panels:
 - Single or double SAN UV.
 - Single or double polycarbonate.
 - Single hardened glass.
- Closed insulated aluminium stucco-fillings.
- Finger trap protection on the panels.
- Large range of standard colours
- RAL-colour as required.
- Higher number of cycles of torsion springs.
- Wicket personnel pass doors.
- Man door.
- Plastic or aluminium air grates.
- Various cylinder locks.
- Hinges, roller carriers, roller carrier axle, bottom console in stainless steel.
- Numbers on the PowerDoor.
- Cable break device.
- Pass door contact.
- Passage security device.
- Adjustable rolling contact.
- PowerDoor/PowerRamp security device.

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- Higher protection class IP 65.
- Remote control.
- Push-button/key-operated switches.
- Photocells for infra-red door control.
- Automatic closing.

Building-in possibilities

Because of client specific requirements and constructional elements a large number of build-in possibilities are being offered. By making the correct choice considerable savings in costs can be obtained. Detailed building-in drawings are available upon request.