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# PowerDoor 601

The PowerDoor 601 is an insulated sectional door comprising of door panels 610mm high x 40mm thick. The doors open vertically and can follow the vertical wall or turn horizontally to follow the ceiling or can follow the roof pitch, with a track system selected to suit your building. The torsion spring assembly, mounted above the door lintel, balances the door making it suitable for manual operation by pull rope or hand chain, or by electrical operation. The door controls can be integrated with other equipment such as dock levellers and traffic lights to ensure the correct sequence of operation.



## Technical Specification

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- The closed cell, polyurethane (PUR) insulating core is Hydro fluorocarbon (HFC), Chlorofluorocarbon (CFC) and Hydro-Chlorofluorocarbon (HCFC) Free with Zero Ozone Depletion Potential (ODP) and therefore compliant with the Montreal and Kyoto Ozone Depletion Protocols.
- The thermal transmittance or 'U' value is 1.1 W/m<sup>2</sup>K for the door and 1.2 W/m<sup>2</sup>K for the door with vision windows. The door panel itself has a 'U' value of 0.51 W/m<sup>2</sup>K.
- Finish option - Polyester paint: Pre-painted polyester coating, 30 micron finish, to the external face in an extensive range of colours, internal RAL9010.
- Finish option - Plastisol: XL Forte classic leather grain 200 micron finish, can match or contrast with Kingspan XL Forte insulated wall panel range. This superior corrosion resistance finish is available in 12 colours: Goosewing Grey 10A05, Merlin Grey 18B25, Gull Grey 18B17 (Albatross), Azure Blue 18C39, Olive Green 12B27, Van Dyke Brown 08B29, Sapphire Blue RAL5003, Leaf Green RAL6002, Khaki Green 12B21 (Moorland), Flame Red 04E53, Cornflower Blue 18E53, Sunflower Yellow 10E55, internal RAL9010.
- Lifespan of the oil tempered torsion springs is between 15,000 and 20,000 motion cycles.
- Power supply for electric operation: 0.37kw – 0.55kw, 415volt, 3 phase, 50Hz with neutral and earth.
- Doors have been tested to determine the resistance to wind load, resistance to water penetration and air permeability:
  - EN 12424 resistance to wind load - Class 4.
  - EN 12425 resistance to water penetration - Class 3.
  - EN 12426 air permeability - Class 3.

## Standard Safety Provisions

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- The PowerDoor 601 is provided with a CE-marking, a guarantee for quality and safety, in accordance with the current applicable European standards.
- Deadman push button control for electrically operated doors.
- Motor protection with a thermal relay for electrically operated doors.
- Control cabinet with emergency stop, in accordance with current applicable European standards, for electrically operated doors.
- Slack/Weak cable protection for electrically operated doors.
- Torsion spring break security device, where applicable.
- Cable break security device, where applicable.



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## Options

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- Electrically interlocked shootbolt. A spring loaded shootbolt is supplied as standard for internal locking of manually operated doors.
- Safety edge to bottom edge of door, functions pneumatically or with photo cells and can either STOP or STOP-RAISE. An automatic closing function is included. The preferred time for automatic closing of the door can be preset from 3 seconds up to 5 minutes.
- Vision windows.
- Full vision panels.
- Higher number of torsion spring motion cycles.
- Wicket personnel pass doors.
- Man door.
- Plastic or aluminium air grates.
- Various cylinder locks.
- Built in handle.
- Stainless steel hinges, roller carriers, roller carrier axle and bottom console.
- Door numbers.
- Interlock between the PowerDoor and the PowerRamp dock leveller.
- Increased protection to IP65.
- Remote control.
- Key operated switches.
- 80mm panel thickness for improved thermal efficiency

