Sentry Automation Ltd

ISO 80

Insulated industrial sectional door

MANUAL OR ELECTRIC | **80mm INSULATED PANELS** | **THERMALLY SEPARATED**



80mm INSULATED PANELS

Thermally decoupled profiles and a CFC-free polyurethane foam core.

FRAME & TRACK OPTIONS

T400, T450 and T500 tracks, including HF versions.

WINDOW & PANEL CHOICE

Quadruple-glazed windows; up to three aluminium sections, within size limits.

ENHANCED SEALING

Double top and bottom seals, multiple side seals and insulated metal connections.

MICROLINE EXTERIOR

Exterior RAL 9002, 9006 or 7016; interior RAL 9002 with horizontal stucco profiling.

Designed for demanding climate separation, the ISO 80 combines 80mm insulated panels with thermally separated end caps and plastic insulation between metal connections. Multiple seals limit draughts, while torsion springs balance the curtain for manual or electric operation.

8,000 × 6,000mm	42m²	0.49 W/m²K
Width / height limits; 42m² max.	Maximum door area	U-value at 5 × 5m, closed door

Supply only • Installation • Repairs • Planned servicing

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ISO 80 / Specification

DIMENSIONS & PERFORMANCE

Width / height limits	8,000mm / 6,000mm; 42m² maximum area
Maximum door area	42m²
Panel thickness	80mm
Aluminium sections	Available
U-value (closed door)	0.49 W/m²K at 5,000 × 5,000mm
Wind load resistance	Class 3-4 to EN 12424
Product conformity	EN 13241

CONSTRUCTION & SEALING

80mm thermally separated galvanised steel panels and end caps; CFC-free polyurethane insulation. Galvanised fittings and tracks; nylon-wheel rollers with 11mm steel shafts; cables with sixfold safety. Multiple insulating rubber seals and insulated panel joints. Manual doors have a handle and foot recess.

FINISHES & STANDARD COLOURS

Microline exterior, polyester-coated in RAL 9002, 9006 or 7016. Interior: horizontal stucco profiling in RAL 9002.

Other RAL colours inside and/or outside are optional, excluding fluorescent and traffic colours.

WINDOWS & PANEL INFILLS

Straight-corner windows with quadruple insulating glazing are optional.

Aluminium panels are available for increased visibility: maximum three panels and maximum door width 6,000mm. Confirm the glazing arrangement and thermal performance for the specified door.

DRIVE & ELECTRICAL

Manual cord/chain reel or geared electric motor. Dead-man, pulse or remote control.
Supply options: 1N-230V-PE / 3-230V-PE / 3N-400V-PE / 3-400V-PE; 50/60Hz.
Standard protection: IP54.
Controls: TS971 / TS981 / T100R (FU).

SAFETY & CONTROL FUNCTIONS

Emergency hand-chain hoist, spring-break and anti-lift protection; standard double opto sensors. 24Vdc control; auxiliary supplies 24Vdc (350mA) / 230Vac (1.6A). Status display with six most-recent faults and a maintenance-cycle counter.

Self-learning opening-force monitoring detects sudden counterbalance changes. Automatic DI/FI inverter detection supports speed, soft-start/stop and braking-ramp settings.

ACTIVATION & SITE REQUIREMENTS

Pull switch, key switch, push-button, photocell, radar, induction loop or remote activation.

Dimensional and structural sheets are available for all track designs. Allow extra side room of 12.5mm each side (25mm total). For electric operation, provide a suitable CEE socket within 1m of the control unit. Standard CEE connection: control box IP54.

OPTIONS & ACCESSORIES

Additional activation controls; directly wired IP65 control box and main switch. Leading photocell, cable-break protection, anti-lift protection, traffic lights, orange warning beacon and heavy spring-return shoot bolt.

Adjusted wind restriction and 30,000- or 60,000-cycle springs. Options are subject to additional cost and confirmation.

To quote: send opening dimensions, available headroom and side room, site photographs, postcode, power details, preferred finish and activation requirements.

Based on manufacturer literature dated May 2024. Confirm dimensions, performance, controls, structural provisions and current availability with your quotation. Technical changes reserved.

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