

Thermo 80

ULTRA INSULATED SECTIONAL DOOR



This door system combines excellent sound and maximum thermal insulation properties, with clean, modern designed 80mm micro-profiled panels. Thermal superiority allows application in industrial facilities including cold storage or heated process areas covering a wide variety of projects.

Energy Saving

Thermal Performance of this door is exceptional given quality PU high-density panel core complemented by robust full perimeter seals. A U-value of 0.68W/m²K ensures optimum energy management of controlled environments, whether cooled or heated.

Sound Insulation

The Thermo 80 door system is certified for world class performance. Tested by TÜV Nord, airborne sound reduction acc. to EN717-1 is 25dB which means it can be applied to any project requiring effective sound reduction.

Ideal for use in

- Warehouses
- Distribution centres
- Manufacturing facilities
- Logistics companies
- Heavy-use environments
- Industrial facilities
- Convention centres
- Airports or Military

Architectural Applications

Exterior of panels has a micro-line profiling and a polyester coating available in multiple colour selections. This can be complemented by various window sizes. Either one or more panels can be replaced with anodised aluminium profiles which allows multiple glazing options. Alternatively, vision options include extra low burglar resistant windows.

Safety Certified

Built to exceed AS/NZS standards, you can trust the Thermo 80 door system to protect your people at all times. The door hardware systems include multiple safety enhancements and have been stress tested and assessed to fully comply to EN13241-1 and are all TÜV Nord certified.

Configurability

Uniquely customisable components ensure the door can be correctly adapted to optimise design and function. Multiple automation and safety systems are available including high speed operation. This flexibility ensures you receive what you need.



STANDARD COMPLIANCE

Wind Permeability	Class 3	Water Permeability	Class 3
Wind Loading	Class 4	Acoustic Performance	25dB
Thermal Transmittance	0.68 W/m ² K	Safe Openings	Yes

TECHNICAL SPECIFICATIONS

Application	Internal/External
Standard Size	3500mm H x 3000mm W
Minimum Size	1800mm H x 2000mm W
Maximum Size	6000mm H x 8000mm W
Opening Speed	Up to 200mm/sec - variable
Closing Speed	Up to 200mm/sec - variable

TRACK SYSTEM

Material	Galvanised Steel
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SPACE REQUIREMENTS

minimum clearances

Headroom	500mm
Sideroom	295mm (motor) 140mm (non-motor side)

BLADE

Material	Thermo 60mm panels with micro-profile exterior
Colour	RAL9002 (standard)
Vision Panels	Rectangular, Quadruple Glazed (680mm W x 370mm H)

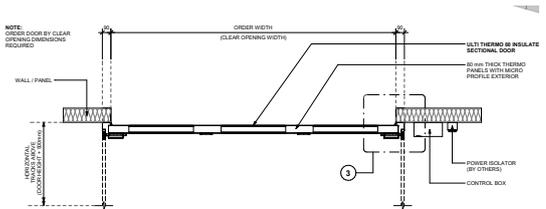
MOTORISATION

Motor	T75 Automation package: 0.37kW; Torque; 50Nm
Motor Position	RH Side
Control Panel	IP54 rated Metal Control box with inverter frequency controller - RH mounted
Power Supply	400V; 3phase +N+E; 16Amp Rated; 50Hz adjacent to control box installed to right hand side

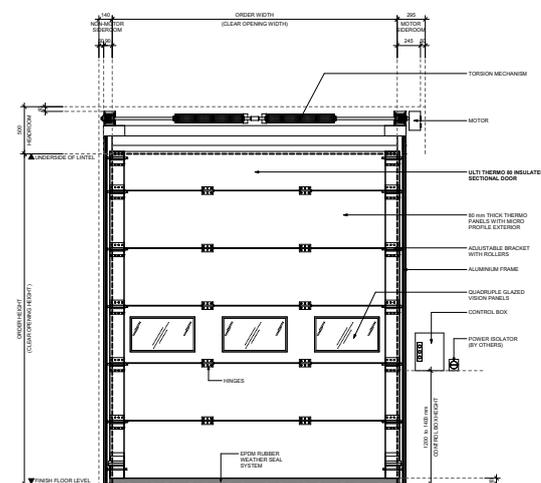
SAFETY

Standard Inclusions	Opto-sensor safety edge system, Spring break safety devices
Emergency Egress	Manual Hand Chain

DIMENSIONS



FLOOR PLAN VIEW



FRONT ELEVATION VIEW

ACTIVATIONS

Manual	Push button fitted to control box: Up-Stop-Down
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STANDARD INCLUSIONS

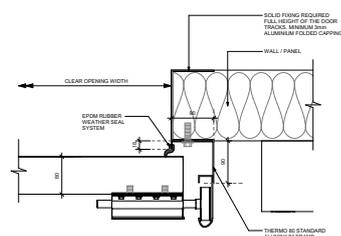
T450 Track System for Std. Lift
Double EPDM Rubber Door Seals at top and bottom
30,000 cycle rated Springs
Thermally insulated plastic seals between all metal surfaces
Wind and waterproof connections between panel sections
Performance rated to 100,000 cycles

WARRANTY

12 Months or 10,000 Cycles
*Std Warranty terms and conditions apply

OPTIONAL FEATURES

Activations	All Ulti Activation options can be applied Exterior push buttons Interior and/or exterior key switch
Motorisation	T100 - Heavy duty automation package (recommended >20m ²) T100 Smart - Smart automation package <27m ² T100 Speed - Speed automation package <22m ² up to 600mm/sec operation
Mounting Options	LH Power Supply, LH Control Box, LH Motor, Custom Control Box Position
Power Supply	240V single phase +N+E; 15Amp (isolator required adjacent to control box, by others)
Track System Colours	RAL7040
Blade Colour Exterior Only	RAL7016, RAL9002, RAL9006
Vision Windows	Aluminium frames to be colour matched to thermo panels
Alternative Vision windows within Thermo Panel	Quadruple glazed, Burglar Resistant Vision windows, 610mm W OD x 145mm H OD, R45
Full Width Glazing in anodised aluminium frame if <6000mm W (in lieu of Thermo 80 Panel)	60mm Quadruple glazed, Polycarbonate
Alternative Full Width Glazing	Quadruple glazing scratch resistant, 4mm safety glass on outsides, 2.2mm glass inside
Alternative Track Systems (configured to available height)	
Low Clearance Option	T240 Max door width 6500mm/Max door size 22m ²
High Lift	T400
Vertical lift	T500 Opening height + 600mm; Max door size 35m ²
Roof Angle Track System	1-30°
Springs	60,000 cycle rated springs and spring break safety device Springless Operation
Safety	Wireless leading edge photocell 2000mm Tower Beam Safety Sensors IP67 1 set of Infrared Photocell Safety beams IP65 LED traffic lights pair (red/green) - T100 Smart required
Emergency Egress	UPS Battery Backup (Single Phase)



BLOW UP PLAN DETAIL