Thermo 80

INSULATED SECTIONAL —— DOOR

This door system combines excellent sound and maximum thermal insulation properties, with clean, modern designed 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 0.49W/m^{2}K 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 or attractive round 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.

TECHNICAL SPECIFICATIONS

Application	Internal/External
Minimum Size	2000mm W x 2250mm H
Maximum Size	8000mm W x 6000mm H
Opening Speed	Up to 200mm/sec

STRUCTURE

Track	T450 track system for Std. lift
Bottom Profile	Opto-sensor safety edge system
Springs	30,000 cycle rated spring
Seals	Double EPDM rubber seals top+bottom
	Thermally insulated plastic seals between all metal surfaces Wind and waterproof connections between panel sections

SPACE REQUIREMENTS
minimum clearances

Headroom	450mm

PANELS

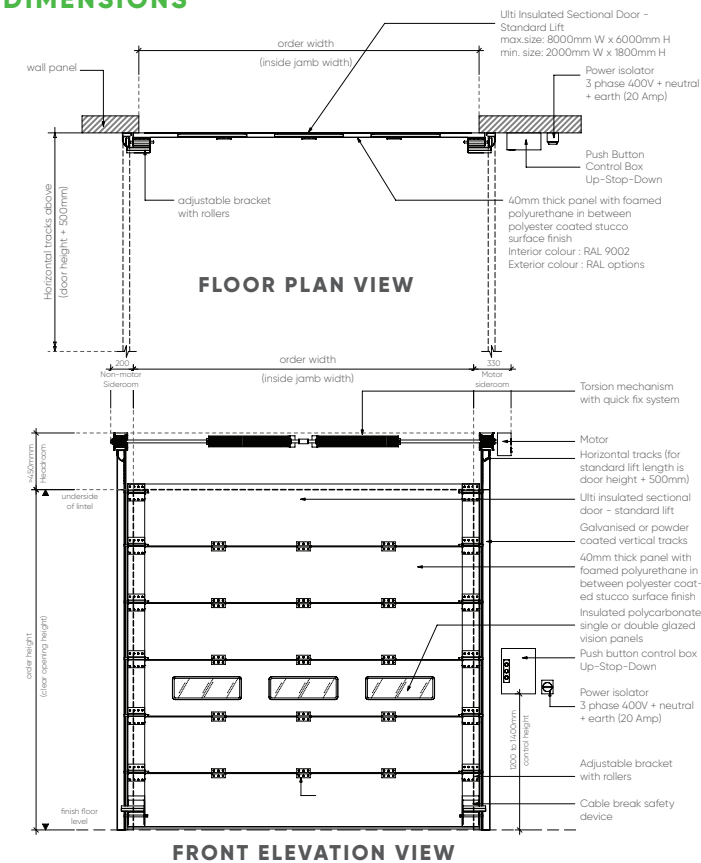|	
Material	Thermo 80mm panels with micro-profile exterior, U-value: 0.49W/m²K
Exterior Colour	RAL 9002 (standard) alternative standard colours available
Interior Colour	RAL 9002 (standard)

MOTORISATION

Motor	T75 automation package: 0.37kW
Control Unit	Push button control box, up-stop-down
Power Supply	400V 3 Phase+N+E 16Amp 50Hz
Torque	50 Nm
Orientation	RH mounted

SAFETY

Mechanical Safety	Cable break safety devices
	Emergency hand chain

OPTIONAL FEATURES
Alternative Track Systems

Low Headroom	T240 Max door width 6500mm/Max door size 22m²
High Lift	T400
Vertical lift	T500 Opening height + 600mm; Max door size 35m²
Roof Angle Track System	1–30°
Track System Colour	Powder coated in RAL7040

Automation Packages

T100	Heavy Duty automation package (door sizes >20m²)
T100 Smart	Smart automation package (door sizes <27m²)
T100 Speed	Speed automation package (<20m²) <600mm/sec opening speed
Activations	Exterior push buttons
	Interior and/or exterior key switch
Power Supply	240V single phase +N+E 15Amp (isolator required adjacent to control box, by others)
Battery Backup	UPS only for 240V option
Motorisation	Left handed motor and/or control box
Exterior Colours	RAL7016, RAL9002, RAL9006
Photocells	Wireless Leading-Edge Photocell Photocell Safety Beam set Enhanced Safety Light Grille
Springs	60,000 cycle rated springs and spring break safety device

Window Panels/Glazing

Standard Vision Window w/in Thermo Panel	Rectangular Quadruple glazed, 680mm W OD x 370mm H OD
Alternative Vision Window w/in Thermo Panel	Quadruple glazed, Burglar Resistant Vision windows, 610mm W OD x 145mm H OD, R45
Standard Full Width Glazing in Anodised Aluminium Frame	60mm Quadruple glazed, Polycarbonate (if <6000mm W)
Alternative Full Width Glazing	Quadruple glazing scratch resistant, 4mm safety glass on outsides, 2.2mm glass inside
Frames	Aluminium frames to be colour matched to Thermo panel

Other Optional Inclusions

Activation Options T100 Smart Required	Pull Switch, Key-operated Switch, Touchless Hand Sensor, Virtual Vision, Radar, Remote Controls, Proximity Sensors
	LED Traffic Lights, pair (red/green)

DIMENSIONS

FLOOR PLAN VIEW

FRONT ELEVATION VIEW

SIDE ELEVATION VIEW

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