

# Sectional Doors



# Summary

## Sectional Doors

### Steel



#### PINNACLE SERIES

The Pinnacle Series sectional door range is primarily used for garage door and light commercial applications. Providing security, strength and reliable operation, these doors are available in a variety of classic and modern panel designs and can be fitted with optional feature windows.



#### YARRA

The Yarra's minimalist and strong design consists of a flat (non-textured) face making this panel ideal for the contemporary home or apartment.



#### RIB-LINE

Steel Rib-Line sectional doors encompass a strong panel design and are suitable for most commercial and light industrial applications. Optional features including acrylic vision panels and perforated panels can be provided upon specification.



#### SAXTON

Saxton sectional doors are a custom designed door ideal for most commercial and light industrial applications. Encompassing a steel frame, the Saxton can be clad with a variety of materials. NOTE: Cladding limitations may apply due to weight restrictions.

### Aluminium



#### HORIZON-LINE

The Horizon-Line sectional door has a strong, sleek and smooth-finish aluminium slat design, making it ideal for contemporary homes and commercial applications. These doors are well suited to coastal areas and can also be enhanced with optional custom windows.

# Summary (Continued)

## Sectional Doors

### Aluminium



#### HORIZON-SHINE

The aluminium Horizon-Shine sectional door combines the sleek Horizon-Line panel with one or more contemporary elongated window/s fitted into the top panel.



#### REFLECTION

The aluminium Reflection sectional door features a strong aluminium extruded frame with a rounded edge profile. The Reflection can be clad with acrylic or glass (size restrictions apply).



#### AUSTIN

The timeless design of the Austin aluminium sectional door makes it ideal for both residential and commercial applications. The aluminium extruded frame not only combines strength and simplicity but also provides for a wide variety of cladding options and thicknesses.

### Timber



#### TIMBER SECTIONAL DOORS

Timber Sectional Doors are available in a wide variety of sophisticated panel designs and finishes. Typically manufactured from Western Red Cedar, these doors are not only a striking feature, but also provide a cozy and welcoming touch to your façade.

# Selection Chart

## Sectional Doors

PRODUCT RANGE		APPLICATIONS																	
Steel	Pinnacle Series		●				●	●	✓					✓				●	
	Yarra		●				●	●	✓					✓				●	
	Rib-line		●	●			✓	●	✓								●	✓	
Aluminium	Saxton		●	●			✓	●	●					✓		●		✓	
	Horizon-line		●	●			●	●	✓					✓					
	Horizon-shine		●	●			●	●	✓					✓					
	Reflection		●				●	●	✓					✓					
	Austin		●	●			●	●	✓					✓				●	
	Timber Sectional Doors		●						✓					✓					
		Aircraft Hangers	Car Parks	Cool-Rooms & Insulated Drier Rooms	Counters, Kiosks & Bars	Emergency Services (e.g. CFA)	Factories & Warehouses (external)	Factories & Warehouses (internal)	Garages & Carports	Laneways (freestanding)	Restaurants	Self Storage	Shopfronts	Shopping Complexes	Showrooms	Supermarket Entrances	Transport & Loading Docks/Bays	Vehicles (e.g. trucks)	Workshops

PRODUCT RANGE		OPTIONAL FEATURES										
Steel	Pinnacle Series					●	✓				✓	
	Yarra						✓				✓	
	Rib-line					●	✓			✓	✓	
Aluminium	Saxton	✓				●	✓			✓	✓	
	Horizon-line			●		●	✓				✓	
	Horizon-shine			●			✓				✓	
	Reflection	●		●			✓				✓	
	Austin	✓		●			✓			✓	●	
	Timber Sectional Doors	●		●			✓			●		
		Cladding Options	Fire Rated	Glass	High Usage	Insulation Sound/Thermal	Motorisation	Mullions	Personal Entry & Exit Door	Ventilation (5-25% Airflow)	Ventilation (26% + Airflow)	Vision

**SELECTION CHART KEY**

- ✓ Suitable
- Suitable, conditions may apply

# Pinnacle Series

## Steel Sectional Doors



Pinnacle Series steel sectional doors provide security, strength and reliable operation for garage door or light commercial applications. This superior product comprises a wide range of classic and contemporary panel designs available in a wide range of colours and custom-made to suit the door opening size.

### FEATURES

- Wide range of appealing designs
- Strong profile
- Easy to operate
- Optional acrylic windows

### DOOR DIMENSIONS

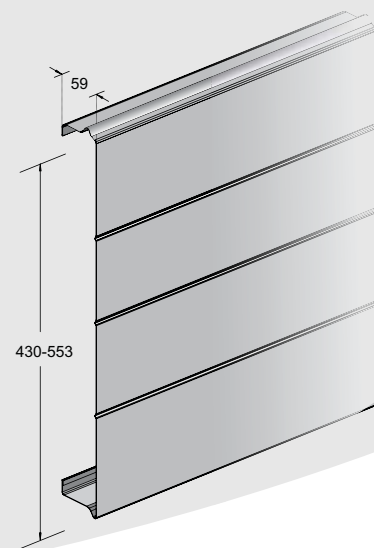
- Maximum Height: 3500mm\*
  - Maximum Width: 6200mm\*
- \*Total size must not exceed 16.5m<sup>2</sup>.

**NOTE:** Some panel designs are not available in maximum sizes. Refer to Residential & Commercial Steel Sectional Doors brochure for specific information.

### RECOMMENDED SPECIFICATIONS

The Pinnacle Series steel sectional door in selected panel design and selected texture. The sectional door operates by means of horizontal hinged panels that travel vertically to the top of the door-opening and then horizontally under the ceiling.

**NOTE:** When specifying a sectional overhead door, it is important to also specify the door's intended or expected usage (i.e. number of operations per day or number of vehicles in car park). Sectional Doors are suitable for applications with a usage up to 50 operations per day. In applications requiring higher usage, counterweight doors or sliding doors are highly recommended. When specifying, please also nominate the tracking installation system required e.g. Standard Headroom, High Lift etc.



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# Pinnacle Series

## Steel Sectional Doors

### PANEL DETAILS

Pinnacle Series panels are custom manufactured from 0.6mm thick roll-formed or pressed steel (depending on chosen panel design) and are available in Woodgrain texture or the unique Coppertone texture. Panels are custom manufactured to suit the opening height; this ensures equal panel heights for a consistent appearance. Steel vertical stiles are riveted to the back of the panels to give additional strength and provide a fixing point for hinges and roller hinge brackets.

### WINDOWS (OPTIONAL)

Clear acrylic windows can be provided to add that special touch to your garage door and facade, as well as functioning as a practical means of providing light into your garage. Windows are available in a variety of stylish designs. See brochure for window options.

### BRACING

Bracing is designed to suit door width and weight as per manufacturer's specifications. A combination of steel struts, RHS or pin trusses may be used to brace the door.

### FINISH

Pinnacle Series sectional doors are available in a wide range of pre-painted steel (e.g. Colorbond®) or powder coat colours. See the Airport Doors website or contact Sales for current colour availability.

### BOTTOM RAIL

The strong aluminium extruded bottom rail fitted with a durable PVC weather seal, is fitted to the bottom panel to provide added strength and to minimise slightly uneven ground. The standard bottom rail comprises a 5mm face, however where required, an extended bottom-rail of 45mm face may be used.

### ADDITIONAL DOOR SEALS (OPTIONAL)

Additional door seals can be provided to seal the working clearance gap around the door. Seals for fire risk areas are designed to prevent embers from entering the garage and are manufactured from a flame retardant material. Door seals also help to reduce dust and dirt from entering the garage.

### TRACKS

Standard vertical and horizontal tracks are manufactured from specially roll-formed heavy-duty galvanised steel of 50mm (2") profile. Standard tracks are designed to accommodate

nylon track rollers. NOTE: 75mm (3") tracks with steel track rollers are used for large or heavy doors, or where required for frequent usage. Horizontal tracks are reinforced with 40mm by 40mm steel angle and are supported 200mm-300mm from each end. Where tracks exceed 3000mm, additional centre supports will also be provided.

### SPRINGS

Torsion springs are typically made from 5.6mm to 9mm thick oil tempered spring wire and are designed to suit the door size and weight and tensioned to correctly balance the door. The springs (as standard) are mounted along a steel cross shaft directly above the door behind the lintel. NOTE: For low headroom track applications, the cross shaft & springs may be required to be mounted at the end of the horizontal tracks.

### HARDWARE

Cable drums are attached to each end of the steel cross shaft. Galvanised steel wire cables run from the cable drums to the bottom steel anchor brackets at the bottom ends of the door. As the cable drums turn, by means of the torsion springs and cross shaft, the cables wind on or off the grooves of the cable drums to lift the door up or down.

Sectional door support brackets are manufactured from galvanised steel. Horizontal track support brackets are attached to adjacent walls (where wall distance is 600mm or less) or supported from the ceiling.

Sectional door hinges are manufactured from galvanised steel for strength and durability. Doors that exceed 5500mm in width are fitted with double hinge roller brackets and rollers with extended shafts.

Standard track rollers consist of steel ball bearings complete with a nylon outer casing for quieter operation. For large, heavy, or frequent operation doors (e.g. 20+ operations per day), steel track rollers with steel ball bearings are used for added strength.

### FIXING REQUIREMENTS

The building construction (typically solid brick, concrete or steel) must be structurally sound and have adequate strength to support the Sectional Door and its fixing requirements. Overhead fixing points for the horizontal tracks and central motor rack are also required. Consult Technical Sales for location and further details.



# Pinnacle Series

## Steel Sectional Doors

### LOCKING

Manually operated doors can be fitted with a standard "T" handle lock incorporating a two point locking system. Alternative manual locking system can be fitted upon specification. Motorised sectional doors are self-locking, thus are not fitted with a manual lock as standard.

### OPERATION

Sectional Doors operate from behind the opening and are typically made up of four or more horizontal hinged panels. The panels are fitted with track rollers on each side to enable the door to travel smoothly within specially designed sectional door tracks. In the open position the door rests horizontally overhead as standard. Alternative track installation (e.g. high lift or vertical lift) may be available depending on the door size, weight and application (limitations may apply). Sectional doors can be operated by hand or motorised.

### MOTORISATION

Sectional overhead doors are typically motorised by a centrally mounted overhead 'trolley' type operator, either of single-phase (24DC/240v or 240v) or three-phase (415v) power depending on size, weight and application of door. Residential applications are supplied as standard with 24DC/240v automated operator unless otherwise specified. The operator head is mounted under the ceiling to a central steel drive rack consisting of a chain or belt drive and a travelling carriage. A coupling arm connects the carriage to the top of the door enabling the door to open and close. Standard operators are fitted with a pull cord to enable emergency manual operation in case of power outage. Residential sectional operators come complete with hand transmitters for remote control access. Unless otherwise specified, commercial sectional operators come with a standard push-button station only. Specific access control requirements should be specified by the client.

Alternative direct drive motorisation, with either single- or three-phase power is also available. In some circumstances (e.g. heavy or large doors, doors requiring commercial access control, or doors installed with high lift or vertical lift tracks) direct drive motorisation is the only suitable option. Direct drive operators are fitted to the side of the door and directly drive the steel cross shaft. The operator includes a pull cord or a hauling chain (depending on the operator) to enable emergency manual operation in case of power outage.

The provision of adequate mains power supply and GPO or isolator (as required) to motor location is the responsibility of the client. Wiring from the isolator and commissioning of the door, motor controllers and any ancillary hardware is by client, unless otherwise stated in writing.

Optional extras, such as access control accessories, safety and security accessories including; slack rope tension monitor, automatic lock mechanism and safety reversing sensors etc., are available upon specification. For further information see Door Operators & Accessories.

### OPTIONS

- Acrylic windows
- Additional door seals
- Tapered bottom



# Yarra

## Steel Sectional Doors



The Yarra's minimalist and strong design consists of a flat (non-textured) face, making this panel ideal for the contemporary home or apartment.

### FEATURES

- Sleek and strong design
- Smooth face
- Optional acrylic windows

### DOOR DIMENSIONS

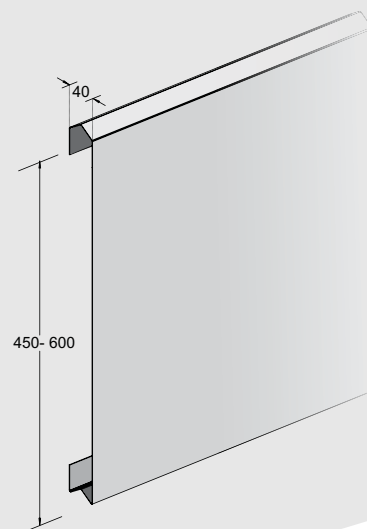
- Maximum Height: 3500mm\*
  - Maximum Width: 5200mm\*
- \*Total size must not exceed 13m<sup>2</sup>.

**NOTE:** Panel height restrictions apply, consult Technical Sales.

### RECOMMENDED SPECIFICATIONS

The Yarra steel sectional door in selected colour. The sectional door operates by means of horizontal hinged panels that travel vertically to the top of the door-opening and then horizontally under the ceiling.

**NOTE:** When specifying a sectional overhead door, it is important to also specify the door's intended or expected usage (i.e. number of operations per day or number of vehicles in car park). Sectional Doors are suitable for applications with a usage up to 50 operations per day. In applications requiring higher usage, counterweight doors or sliding doors are highly recommended. When specifying, please also nominate the tracking installation system required e.g. Standard Headroom, High Lift etc



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# Yarra

## Steel Sectional Doors

### PANEL DETAILS

Yarra panels are custom manufactured from 0.75mm thick Zinalume® folded steel and are available in flat (non-textured) finish. Panels are custom manufactured to suit the opening height. Panels are custom manufactured to suit the opening height; this ensures equal panel heights for a consistent appearance. Steel vertical stiles are riveted to the back of the panels to give additional strength and provide a fixing point for hinges and roller hinge brackets.

### WINDOWS (OPTIONAL)

Clear acrylic windows can be provided to add that special touch to your garage door and facade, as well as functioning as a practical means of providing light into your garage. Windows are available in a variety of stylish designs. See brochure for window options.

### BRACING

Bracing is designed to suit door width and weight as per manufacturer's specifications. A combination of steel struts, RHS or pin trusses may be used to brace the door.

### FINISH

Yarra sectional doors are available in Zinalume® or a wide range of powder coat colours.

### WEATHER SEAL

The bottom panel will be fitted with a flat rubber weather seal to reduce interior exposure of rain and leaves.

### ADDITIONAL DOOR SEALS (OPTIONAL)

Additional door seals can be provided to seal the working clearance gap around the door. Seals for fire risk areas are designed to prevent embers from entering the garage and are manufactured from a flame retardant material. Door seals also help to reduce dust and dirt from entering the garage.

### TRACKS

Standard vertical and horizontal tracks are manufactured from specially roll-formed heavy-duty galvanised steel of 50mm (2") profile. Standard tracks are designed to accommodate nylon track rollers. NOTE: 75mm (3") tracks with steel track rollers are used for large or heavy doors, or where required for frequent usage. Horizontal tracks are reinforced with 40mm by 40mm steel angle and are supported 200mm-300mm from each end. Where tracks exceed 3000mm, additional centre supports will also be provided.

### SPRINGS

Torsion springs are typically made from 5.6mm to 9mm thick oil tempered spring wire and are designed to suit the door size and weight and tensioned to correctly balance the door. The springs (as standard) are mounted along a steel cross shaft directly above the door behind the lintel. NOTE: For low headroom track applications, the cross shaft & springs may be required to be mounted at the end of the horizontal tracks.

### HARDWARE

Cable drums are attached to each end of the steel cross shaft. Galvanised steel wire cables run from the cable drums to the bottom steel anchor brackets at the bottom ends of the door. As the cable drums turn, by means of the torsion springs and cross shaft, the cables wind on or off the grooves of the cable drums to lift the door up or down.

Sectional door support brackets are manufactured from galvanised steel. Horizontal track support brackets are attached to adjacent walls (where wall distance is 600mm or less) or supported from the ceiling.

Sectional door hinges are manufactured from galvanised steel for strength and durability. Doors that exceed 5500mm in width are fitted with double hinge roller brackets and rollers with extended shafts.

Standard track rollers consist of steel ball bearings complete with a nylon outer casing for quieter operation. For large, heavy, or frequent operation doors (e.g. 20+ operations per day), steel track rollers with steel ball bearings are used for added strength.

### FIXING REQUIREMENTS

The building construction (typically solid brick, concrete or steel) must be structurally sound and have adequate strength to support the Sectional Door and its fixing requirements. Overhead fixing points for the horizontal tracks and central motor rack are also required. Consult Technical Sales for location and further details.

### LOCKING

Manually operated doors can be fitted with a standard "T" handle lock incorporating a two point locking system. Alternative manual locking system can be fitted upon specification. Motorised sectional doors are self-locking, thus are not fitted with a manual lock as standard.

### OPERATION

Sectional Doors operate from behind the opening and are typically made up of four or more horizontal hinged panels. The panels are fitted with track rollers on each side to enable the door to travel smoothly within specially designed sectional door tracks. In the open position the door rests horizontally overhead as standard. Alternative track installation (e.g. high lift or vertical lift) may be available depending on the door size, weight and application (limitations may apply). Sectional doors can be operated by hand or motorised.

### MOTORISATION

Sectional overhead doors are typically motorised by a centrally mounted overhead 'trolley' type operator, either of single-phase (240V/240v or 240v) or three-phase (415v) power depending on size, weight and application of door. Residential applications are supplied as standard with 240V/240v automated operator unless otherwise specified. The operator head is mounted under the ceiling to a central steel drive rack consisting of a chain or belt drive and a travelling carriage. A coupling arm

# Yarra

## Steel Sectional Doors

connects the carriage to the top of the door enabling the door to open and close. Standard operators are fitted with a pull cord to enable emergency manual operation in case of power outage. Residential sectional operators come complete with hand transmitters for remote control access. Unless otherwise specified, commercial sectional operators come with a standard push-button station only. Specific access control requirements should be specified by the client.

Alternative direct drive motorisation, with either single- or three-phase power is also available. In some circumstances (e.g. heavy or large doors, doors requiring commercial access control, or doors installed with high lift or vertical lift tracks) direct drive motorisation is the only suitable option. Direct drive operators are fitted to the side of the door and directly drive the steel cross shaft. The operator includes a pull cord or a hauling chain (depending on the operator) to enable emergency manual operation in case of power outage.

The provision of adequate mains power supply and GPO or

isolator (as required) to motor location is the responsibility of the client. Wiring from the isolator and commissioning of the door, motor controllers and any ancillary hardware is by client, unless otherwise stated in writing.

Optional extras, such as access control accessories, safety and security accessories including; slack rope tension monitor, automatic lock mechanism and safety reversing sensors etc., are available upon specification. For further information see Door Operators & Accessories.

### OPTIONS

- Acrylic windows
- Additional door seals
- Tapered bottom



# Rib-Line

## Steel Sectional Doors



Rib-line steel sectional doors encompass a robust design and can be provided with optional ventilation or acrylic vision panels. The Rib-line is suitable for most commercial and light industrial applications (such as workshops, small to medium car parks and laneways, etc.), and are also ideal for residential applications where extra strength is required for large garage door openings.

### FEATURES

- Robust design
- Easy to operate
- Optional vision/ventilation panels
- Optional insulation

### DOOR DIMENSIONS

- Maximum Height: 4200mm\*
- Maximum Width: 7400mm\*

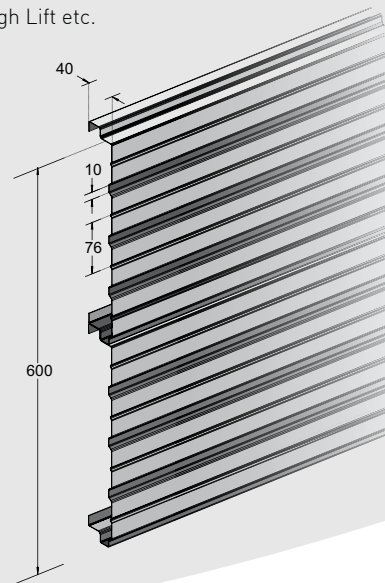
\*Standard Residential applications - Door must not exceed 19m<sup>2</sup>

\*Commercial/Industrial applications - Door must not exceed 24m<sup>2</sup>

### RECOMMENDED SPECIFICATIONS

The Rib-Line steel Sectional Door in selected colour as manufactured by Airport Doors. The sectional door operates by means of horizontal hinged panels that travel vertically to the top of the door-opening and then horizontally under the ceiling.

**NOTE:** When specifying a sectional overhead door, it is important to also specify the door's intended or expected usage (i.e. number of operations per day or number of vehicles in car park). Sectional Doors are suitable for applications with a usage up to 50 operations per day. In applications requiring higher usage, counterweight doors or sliding doors are highly recommended. When specifying, please also nominate the tracking installation system required e.g. Standard Headroom, High Lift etc.



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# Rib-Line

## Steel Sectional Doors

### PANEL DETAILS

The Rib-Line panel is manufactured from 0.55mm thick galvanised steel and is 40mm deep. Standard panels comprise of two 300mm high sections stitch riveted together to form a 600mm high panel.

End and intermediate vertical stiles are manufactured from 1.6mm galvanised steel channel and are riveted to the back of the panels to give additional strength and provide a fixing point for hinges and roller hinge brackets.

### VENTILATION (OPTIONAL)

The Rib-Line Sectional Door can be perforated to provide ventilation up to 10% airflow (when 'fully-perforated').

### VISION PANELS (OPTIONAL)

Where required, acrylic window panels manufactured from a steel frame with aluminium extrusion or angle can be combined with the Rib-Line panels to allow natural light into the garage or building.

### INSULATION (OPTIONAL)

Polystyrene thermal insulation can be fitted inside the panel with a backing plate when specified. Consult Technical Sales for more information.

### BRACING

Bracing is designed to suit door width and weight as per manufacturer's specifications. Steel struts or pin trusses may be used to brace the door as required.

### FINISH

Rib-Line panels are available in galvanised or can be powder coated in a wide range of powder coat colours.

### WEATHER SEAL

The bottom panel will be fitted with a flat rubber weather seal to reduce interior exposure of rain and leaves.

### ADDITIONAL DOOR SEALS (OPTIONAL)

Additional door seals can be provided to seal the working clearance gap around the door. Seals for fire risk areas are designed to prevent embers from entering the garage and are manufactured from a flame retardant material. Door seals also help to reduce dust and dirt from entering the garage.

### TRACKS

Standard vertical and horizontal tracks are manufactured from specially roll-formed heavy-duty galvanised steel of 50mm (2") profile. Standard tracks are designed to accommodate nylon track rollers. NOTE: 75mm (3") tracks with steel track rollers are used for large or heavy doors, or where required for frequent usage. Horizontal tracks are reinforced with 40mm by 40mm steel angle and are supported 200mm-300mm from each end. Where tracks exceed 3000mm, additional centre supports will also be provided.

### SPRINGS

Torsion springs are typically made from 5.6mm to 9mm thick oil tempered spring wire and are designed to suit the door size and weight and tensioned to correctly balance the door. The springs (as standard) are mounted along a steel cross shaft (torsion bar) directly above the door behind the lintel. NOTE: For low headroom track applications, the cross shaft & springs may be required to be mounted at the end of the horizontal tracks.

### CROSS SHAFT (TORSION BAR)

The cross shaft is manufactured using steel tube as standard, or solid steel bar (in large or heavy door applications). The shaft operates via bearings and is supported by end and centre anchor plates.

### HARDWARE

Cable drums are attached to each end of the steel cross shaft. Galvanised steel wire cables run from the cable drums to the bottom steel anchor brackets at the bottom ends of the door. As the cable drums turn, by means of the torsion springs and cross shaft, the cables wind on or off the grooves of the cable drums to lift the door up or down.

Sectional door support brackets are manufactured from galvanised steel. Horizontal track support brackets are attached to adjacent walls (where wall distance is 600mm or less) or supported from the ceiling.

Sectional door hinges are manufactured from galvanised steel for strength and durability. Doors that exceed 5500mm in width are fitted with double hinge roller brackets and rollers with extended shafts.

Standard track rollers consist of steel ball bearings complete with a nylon outer casing for quieter operation. For large,



# Rib-Line

## Steel Sectional Doors

heavy, or frequent operation doors (e.g. 20+ operations per day), steel track rollers with steel ball bearings are used for added strength.

### FIXING REQUIREMENTS

The building construction (typically solid brick, concrete or steel) must be structurally sound and have adequate strength to support the Sectional Door and its fixing requirements. Overhead fixing points for the horizontal tracks and central motor rack are also required. Consult Technical Sales for location and further details.

### LOCKING

Manually operated doors can be either fitted with spring loaded shoot bolts on the inside (padlocks not included), or a "T" handle lock incorporating a two point locking system. NOTE: Motorised sectional doors are self-locking and are not fitted with a manual lock as standard.

### OPERATION

Sectional Doors operate from behind the opening and are typically made up of four or more horizontal hinged panels. The panels are fitted with track rollers on each side to enable the door to travel smoothly within specially designed sectional door tracks. In the open position the door rests horizontally overhead as standard. Alternative track installation (e.g. high lift or vertical lift) may be available depending on the door size, weight and application (limitations may apply). Sectional doors can be operated by hand or motorised.

### MOTORISATION

Sectional overhead doors are typically motorised by a centrally mounted overhead 'trolley' type operator, either of single-phase (24DC/240v or 240v) or three-phase (415v) power depending on size, weight and application of door. Residential applications are supplied as standard with 24DC/240v automated operator unless otherwise specified. The operator head is mounted under the ceiling to a central steel drive rack consisting of a chain or belt drive and a travelling carriage. A coupling arm connects the carriage to the top of the door enabling the door

to open and close. Standard operators are fitted with a pull cord to enable emergency manual operation in case of power outage. Residential sectional operators come complete with hand transmitters for remote control access. Unless otherwise specified, commercial sectional operators come with a standard push-button station only. Specific access control requirements should be specified by the client.

Alternative direct drive motorisation, with either single- or three-phase power is also available. In some circumstances (e.g. heavy or large doors, doors requiring commercial access control, or doors installed with high lift or vertical lift tracks) direct drive motorisation is the only suitable option. Direct drive operators are fitted to the side of the door and directly drive the steel cross shaft. The operator includes a pull cord or a hauling chain (depending on the operator) to enable emergency manual operation in case of power outage.

The provision of adequate mains power supply and GPO or isolator (as required) to motor location is the responsibility of the client. Wiring from the isolator and commissioning of the door, motor controllers and any ancillary hardware is by client, unless otherwise stated in writing.

Optional extras, such as access control accessories, safety and security accessories including; slack rope tension monitor, automatic lock mechanism and safety reversing sensors etc., are available upon specification. For further information see Door Operators & Accessories.

### OPTIONS

- Ventilation
- Vision panels
- Additional door seals
- Tapered bottom





# Saxton

## Steel Sectional Doors



Saxton sectional doors are a custom designed door ideal for most commercial and light industrial applications such as workshops, warehouses and small car parks. Encompassing a steel frame the Saxton can be clad with a variety of materials. NOTE: Cladding restrictions may apply.

### FEATURES

- Robust design
- Easy to operate
- Various cladding options
- Optional insulation

### DOOR DIMENSIONS

- Maximum Height: 5000mm\*
- Maximum Width: 8000mm\*

\*Total size must not exceed 30m<sup>2</sup>.

### RECOMMENDED SPECIFICATIONS

The Saxton steel Sectional Door with rolled hollow steel tube framed panels with selected cladding, as manufactured by Airport Doors. The sectional door operates by means of horizontal hinged panels that travel vertically to the top of the door-opening and then horizontally under the ceiling.

**NOTE:** When specifying a sectional overhead door, it is important to also specify the door's intended or expected usage (i.e. number of operations per day or number of vehicles in car park). Sectional Doors are suitable for applications with a usage up to 50 operations per day. In applications requiring higher usage, counterweight doors or sliding doors are highly recommended. When specifying, please also nominate the tracking installation system required e.g. Standard Headroom, High Lift etc.

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# Saxton

## Steel Sectional Doors

### PANEL DETAILS

The Saxton door frame is fabricated from Dual Grade C350LO/ C450LO DuraGal® RHS rectangular hollow steel sections, trussed as required and designed in accordance with AS4100 (Steel Structures) and designed as per manufacturer's specifications to withstand wind loading. The panels are manufactured up to 600mm in height and can be clad with a variety of cladding materials (restrictions may apply due to size or weight limitations).

All exposed steel work is prepared and shop primed before the application of any specified coatings. The steel frame, tracks and fittings can be finished prime painted or powder coated. **(NOTE: Large doors may not be available in powder coat finish).** Other steelwork finishes or specified paint systems can also be supplied when specified.

### CLADDING

Various cladding options such as bar grille, steel flat sheet, aluminium flat sheet, mesh (steel or aluminium), woven wire or perforated sheet metal can be applied to the panel enabling a variety of panel designs. **NOTE: Cladding restrictions may apply due to size or weight limitations.**

Optional aluminium extrusion (St Lucia or St Kilda) can be fitted to the framework (upon specification) in order to provide a tidy frame for fitting the selected cladding. Aluminium extrusions can be natural anodised or powder coated.

### INSULATION (OPTIONAL)

Sound or thermal insulation can be provided when specified (limitations may apply). Consult Technical Sales for further information.

### BRACING

Bracing is designed to suit door width and weight as per manufacturer's specifications. Thus where required (typically in large or heavy doors), pin trusses will be fitted to the door.

### BOTTOM RAIL

The bottom rail reinforces the bottom panel and is manufactured from a durable extruded aluminium section fitted with a PVC bottom weather seal. The weather seal minimises the gap in slightly uneven ground surfaces and reduces interior exposure of rain and leaves. The standard bottom rail has a 5mm face.

**NOTE:** Bar Grille Saxton sectional doors are (as standard)

not fitted with a bottom-rail and PVC weather seal. Unless otherwise specified, Bar Grille Saxton sectional doors will be fitted with rubber stops on the bottom of the bottom panel.

### ADDITIONAL DOOR SEALS (OPTIONAL)

Additional door seals can be provided to seal the working clearance gap around the door. Seals for fire risk areas are designed to prevent embers from entering the garage and are manufactured from a flame retardant material. Door seals also help to reduce dust and dirt from entering the garage.

### TRACKS

Standard vertical and horizontal tracks are manufactured from specially roll-formed heavy-duty galvanised steel of 50mm (2") profile. Standard tracks are designed to accommodate nylon track rollers. **NOTE: 75mm (3") tracks with steel track rollers are used for large or heavy doors, or where required for frequent usage.** Horizontal tracks are reinforced with 40mm by 40mm steel angle and are supported 200mm-300mm from each end. Where tracks exceed 3000mm, additional centre supports will also be provided.

### SPRINGS

Torsion springs are typically made from 5.6mm to 9mm thick oil tempered spring wire and are designed to suit the door size and weight and tensioned to correctly balance the door. The springs (as standard) are mounted along a steel cross shaft (torsion bar) directly above the door behind the lintel. **NOTE: For low headroom track applications (where suitable), the cross shaft & springs may be required to be mounted at the end of the horizontal tracks. Low headroom is not typically recommended for this type of door due to the door weight.**

### CROSS SHAFT (TORSION BAR)

The cross shaft is manufactured using steel tube as standard, or solid steel bar (in large or heavy door applications). The shaft operates via bearings and is supported by end and centre anchor plates.

### HARDWARE

Cable drums are attached to each end of the steel cross shaft. Galvanised steel wire cables run from the cable drums to the bottom steel anchor brackets at the bottom ends of the door. As the cable drums turn, by means of the torsion springs and cross shaft, the cables wind on or off the grooves of the cable drums to lift the door up or down.

Sectional door support brackets are manufactured from



# Saxton

## Steel Sectional Doors

galvanised steel. Horizontal track support brackets are attached to adjacent walls (where wall distance is 600mm or less) or supported from the ceiling.

Sectional door hinges are manufactured from galvanised steel for strength and durability. Doors that exceed 180 - 200kg are fitted with double hinge roller brackets and rollers with extended shafts.

Standard track rollers consist of steel ball bearings complete with a nylon outer casing for quieter operation. For large, heavy, or frequent operation doors (e.g. 20+ operations per day), steel track rollers with steel ball bearings are used for added strength.

### FIXING REQUIREMENTS

The building construction (typically solid brick, concrete or steel) must be structurally sound and have adequate strength to support the Sectional Door and its fixing requirements. Overhead fixing points for the horizontal tracks and central motor rack are also required. Consult Technical Sales for location and further details.

### LOCKING

Manually operated doors can be either fitted with spring loaded shoot bolts on the inside (padlocks not included), or a "T" handle lock incorporating a two point locking system. NOTE: Motorised sectional doors are self-locking and are not fitted with a manual lock as standard.

### OPERATION

Sectional Doors operate from behind the opening and are typically made up of four or more horizontal hinged panels. The panels are fitted with track rollers on each side to enable the door to travel smoothly within specially designed sectional door tracks. In the open position the door rests horizontally overhead as standard. Alternative track installation (e.g. high lift or vertical lift) may be available depending on the door size, weight and application (limitations may apply). Sectional doors can be operated by hand or motorised. Motorisation is highly recommended.

### MOTORISATION

Sectional overhead doors are typically motorised by a centrally mounted overhead 'trolley' type operator, either of single-phase (240V/240v or 240v) or three-phase (415v) power depending on size, weight and application of door. Residential applications are supplied as standard with 240V/240v automated operator

unless otherwise specified. The operator head is mounted under the ceiling to a central steel drive rack consisting of a chain or belt drive and a travelling carriage. A coupling arm connects the carriage to the top of the door enabling the door to open and close. Standard operators are fitted with a pull cord to enable emergency manual operation in case of power outage. Residential sectional operators come complete with hand transmitters for remote control access. Unless otherwise specified, commercial sectional operators come with a standard push-button station only. Specific access control requirements should be specified by the client.

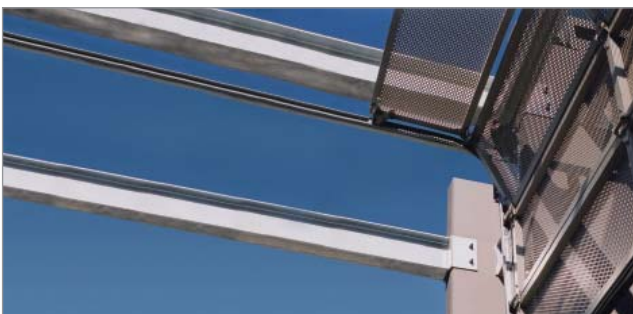
Alternative direct drive motorisation, with either single- or three-phase power is also available. In some circumstances (e.g. heavy or large doors, doors requiring commercial access control, or doors installed with high lift or vertical lift tracks) direct drive motorisation is the only suitable option. Direct drive operators are fitted to the side of the door and directly drive the steel cross shaft. The operator includes a pull cord or a hauling chain (depending on the operator) to enable emergency manual operation in case of power outage.

The provision of adequate mains power supply and GPO or isolator (as required) to motor location is the responsibility of the client. Wiring from the isolator and commissioning of the door, motor controllers and any ancillary hardware is by client, unless otherwise stated in writing.

Optional extras, such as access control accessories, safety and security accessories including; slack rope tension monitor, automatic lock mechanism and safety reversing sensors etc., are available upon specification. For further information see Door Operators & Accessories.

### OPTIONS

- Cladding options
- Additional door seals
- Tapered bottom



# Horizon-Line

## Aluminium Sectional Doors



For a quality, smooth-finish panel boasting a strong, sleek and modern design, the Horizon-Line aluminium sectional door is the perfect solution. It's stunning design makes it ideal for contemporary homes and commercial applications.

### FEATURES

- Easy to operate
- Strong construction
- Appealing design
- Optional widows

### DOOR DIMENSIONS

- Height: 3500mm\*
- Width: 6500mm\*

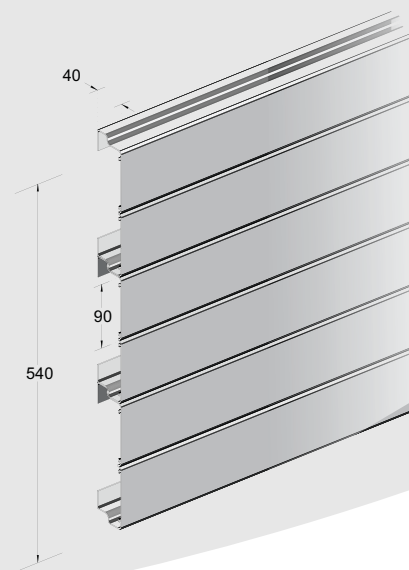
\*Total size must not exceed 17.5m<sup>2</sup>.

**NOTE:** Widths up to 7000mm may be available on special order.

### RECOMMENDED SPECIFICATIONS

Horizon-Line aluminium Sectional Door with 90mm high slats in 1.5mm thick aluminium as manufactured by Airport Doors. The sectional door operates by means of horizontal hinged panels that travel vertically to the top of the door-opening and then horizontally under the ceiling.

**NOTE:** When specifying a sectional overhead door, it is important to also specify the door's intended or expected usage (i.e. number of operations per day or number of vehicles in car park). Sectional Doors are suitable for applications with a usage up to 50 operations per day. In applications requiring higher usage, counterweight doors or sliding doors are highly recommended. When specifying, please also nominate the tracking installation system required e.g. Standard Headroom, High Lift etc.



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# Horizon-Line

## Aluminium Sectional Doors

### PANEL DETAILS

The Horizon-Line's strong profile consists of stylish 90mm high horizontal slats manufactured from 1.5mm extruded aluminium with a depth of 40mm. Aluminium vertical stiles are riveted to the back of the panels to give additional strength and provide a fixing point for hinges and roller hinge brackets.

### WINDOWS (OPTIONAL)

Glass or acrylic windows can be custom designed into your Horizon-Line door to create a unique look and to also allow natural light through. Size and placement of windows are designed to manufacturer's specifications.

### INSULATION (OPTIONAL)

Polystyrene thermal insulation can be fitted inside the panel with a backing plate when specified. Consult Technical Sales for more information.

### BRACING

Bracing is designed to suit door width and weight as per manufacturer's specifications. Steel struts or pin trusses may be used to brace the door as required.

### FINISH

Horizon-Line panels are available in natural anodised or a wide range of powder coat colours.

### WEATHER SEAL

The bottom panel will be fitted with a flat rubber weather seal to reduce interior exposure of rain and leaves.

### ADDITIONAL DOOR SEALS (OPTIONAL)

Additional door seals can be provided to seal the working clearance gap around the door. Seals for fire risk areas are designed to prevent embers from entering the garage and are manufactured from a flame retardant material. Door seals also help to reduce dust and dirt from entering the garage.

### TRACKS

Standard vertical and horizontal tracks are manufactured from specially roll-formed heavy-duty galvanised steel of 50mm (2") profile. Standard tracks are designed to accommodate nylon track rollers. NOTE: 75mm (3") tracks with steel track rollers are used for large or heavy doors, or where required for frequent usage. Horizontal tracks are reinforced with 40mm by 40mm steel angle and are supported 200mm-300mm from each end. Where tracks exceed 3000mm, additional centre supports will also be provided.

### SPRINGS

Torsion springs are typically made from 5.6mm to 9mm thick oil tempered spring wire and are designed to suit the door size and weight and tensioned to correctly balance the door. The springs (as standard) are mounted along a steel cross shaft (torsion bar) directly above the door behind the lintel. NOTE: For low headroom track applications, the cross shaft & springs may be required to be mounted at the end of the horizontal tracks.

### HARDWARE

Cable drums are attached to each end of the steel cross shaft. Galvanised steel wire cables run from the cable drums to the bottom steel anchor brackets at the bottom ends of the door. As the cable drums turn, by means of the torsion springs and cross shaft, the cables wind on or off the grooves of the cable drums to lift the door up or down.

Sectional door support brackets are manufactured from galvanised steel. Horizontal track support brackets are attached to adjacent walls (where wall distance is 600mm or less) or supported from the ceiling.

Sectional door hinges are manufactured from galvanised steel for strength and durability. Doors that exceed 5500mm in width are fitted with double hinge roller brackets and rollers with extended shafts.

Standard track rollers consist of steel ball bearings complete with a nylon outer casing for quieter operation. For large, heavy, or frequent operation doors (e.g. 20+ operations per day), steel track rollers with steel ball bearings are used for added strength.

### FIXING REQUIREMENTS

The building construction (typically solid brick, concrete or steel) must be structurally sound and have adequate strength to support the Sectional Door and its fixing requirements. Overhead fixing points for the horizontal tracks and central motor rack are also required. Consult Technical Sales for location and further details.

### LOCKING

Manually operated doors can be either fitted with spring loaded shoot bolts on the inside (padlocks not included), or a "T" handle lock incorporating a two point locking system. NOTE: Motorised sectional doors are self-locking and are not fitted with a manual lock as standard.





# Horizon-Line

## Aluminium Sectional Doors

### OPERATION

Sectional Doors operate from behind the opening and are typically made up of four or more horizontal hinged panels. The panels are fitted with track rollers on each side to enable the door to travel smoothly within specially designed sectional door tracks. In the open position the door rests horizontally overhead as standard. Alternative track installation (e.g. high lift or vertical lift) may be available depending on the door size, weight and application (limitations may apply). Sectional doors can be operated by hand or motorised.

### MOTORISATION

Sectional overhead doors are typically motorised by a centrally mounted overhead 'trolley' type operator, either of single-phase (24DC/240v or 240v) or three-phase (415v) power depending on size, weight and application of door. Residential applications are supplied as standard with 24DC/240v automated operator unless otherwise specified. The operator head is mounted under the ceiling to a central steel drive rack consisting of a chain or belt drive and a travelling carriage. A coupling arm connects the carriage to the top of the door enabling the door to open and close. Standard operators are fitted with a pull cord to enable emergency manual operation in case of power outage. Residential sectional operators come complete with hand transmitters for remote control access. Unless otherwise specified, commercial sectional operators come with a standard push-button station only. Specific access control requirements should be specified by the client.

Alternative direct drive motorisation, with either single- or three-phase power is also available. In some circumstances (e.g. heavy or large doors, doors requiring commercial access control, or doors installed with high lift or vertical lift tracks)

direct drive motorisation is the only suitable option. Direct drive operators are fitted to the side of the door and directly drive the steel cross shaft. The operator includes a pull cord or a hauling chain (depending on the operator) to enable emergency manual operation in case of power outage.

The provision of adequate mains power supply and GPO or isolator (as required) to motor location is the responsibility of the client. Wiring from the isolator and commissioning of the door, motor controllers and any ancillary hardware is by client, unless otherwise stated in writing.

Optional extras, such as access control accessories, safety and security accessories including; slack rope tension monitor, automatic lock mechanism and safety reversing sensors etc., are available upon specification. For further information see Door Operators & Accessories.

### OPTIONS

- Custom windows
- Additional door seals
- Tapered bottom



# Horizon-Shine

## Aluminium Sectional Doors



The Horizon-Shine sectional door encompasses the contemporary Horizon-Line panel with the addition of one or more striking elongated windows fitted to the top part of the door. The stylish window not only looks great, but it also allows natural light to shine through into the garage.

### FEATURES

- Easy to operate
- Strong construction
- Appealing design
- Elongated window/s

### DOOR DIMENSIONS

- Height: 3500mm\*
- Width: 6500mm\*

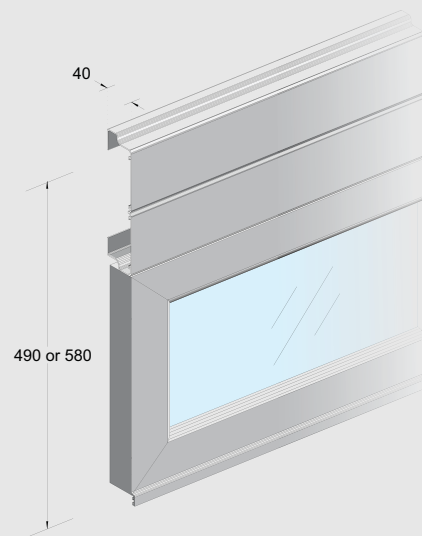
\*Total size must not exceed 17.5m<sup>2</sup>.

**NOTE:** Widths up to 7000mm may be available on special order.

### RECOMMENDED SPECIFICATIONS

Horizon-Shine aluminium Sectional Door with 90mm high slats in 1.5mm thick aluminium combined with horizontal window/s at top of the door as manufactured by Airport Doors. The sectional door operates by means of horizontal hinged panels that travel vertically to the top of the door-opening and then horizontally under the ceiling.

**NOTE:** When specifying a sectional overhead door, it is important to also specify the door's intended or expected usage (i.e. number of operations per day or number of vehicles in car park). Sectional Doors are suitable for applications with a usage up to 50 operations per day. In applications requiring higher usage, counterweight doors or sliding doors are highly recommended. When specifying, please also nominate the tracking installation system required e.g. Standard Headroom, High Lift etc.



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# Horizon-Shine

## Aluminium Sectional Doors

### PANEL DETAILS

The Horizon-Shine's strong profile consists of stylish 90mm high horizontal slats manufactured from 1.5mm extruded aluminium with a depth of 40mm. Aluminium vertical stiles are riveted to the back of the panels to give additional strength and provide a fixing point for hinges and roller hinge brackets.

### WINDOW/S

One or more horizontal windows will be designed to suit the application and fitted into the top panel as standard. The window is approximately 180mm in height and consists of 6.38mm laminated safety glass in White Translucent (as standard).

The maximum one-piece glass span is 2600mm. Doors larger than 2600mm wide will consist of a maximum one-piece glass span of 1500mm, thus the window will consist of vertical dividers where required. The glass is fitted into the Reflection aluminium extrusion with Santoprene (PVC/Rubber compound) glazing channel.

### INSULATION (OPTIONAL)

Sound or thermal insulation can be provided when specified. Consult Technical Sales for more information.

### BRACING

Bracing is designed to suit door width and weight as per manufacturer's specifications. Steel struts or pin trusses may be used to brace the door as required.

### FINISH

Horizon-Shine panels are available in natural anodised or a wide range of powder coat colours.

### WEATHER SEAL

The bottom panel will be fitted with a flat rubber weather seal to reduce interior exposure of rain and leaves.

### ADDITIONAL DOOR SEALS (OPTIONAL)

Additional door seals can be provided to seal the working clearance gap around the door. Seals for fire risk areas are designed to prevent embers from entering the garage and are manufactured from a flame retardant material. Door seals also help to reduce dust and dirt from entering the garage.

### TRACKS

Standard vertical and horizontal tracks are manufactured from specially roll-formed heavy-duty galvanised steel of 50mm

(2") profile. Standard tracks are designed to accommodate nylon track rollers. NOTE: 75mm (3") tracks with steel track rollers are used for large or heavy doors, or where required for frequent usage. Horizontal tracks are reinforced with 40mm by 40mm steel angle and are supported 200mm-300mm from each end. Where tracks exceed 3000mm, additional centre supports will also be provided.

### SPRINGS

Torsion springs are typically made from 5.6mm to 9mm thick oil tempered spring wire and are designed to suit the door size and weight and tensioned to correctly balance the door. The springs (as standard) are mounted along a steel cross shaft (torsion bar) directly above the door behind the lintel. NOTE: For low headroom track applications, the cross shaft & springs may be required to be mounted at the end of the horizontal tracks.

### HARDWARE

Cable drums are attached to each end of the steel cross shaft. Galvanised steel wire cables run from the cable drums to the bottom steel anchor brackets at the bottom ends of the door. As the cable drums turn, by means of the torsion springs and cross shaft, the cables wind on or off the grooves of the cable drums to lift the door up or down.

Sectional door support brackets are manufactured from galvanised steel. Horizontal track support brackets are attached to adjacent walls (where wall distance is 600mm or less) or supported from the ceiling.

Sectional door hinges are manufactured from galvanised steel for strength and durability. Doors that exceed 5500mm in width are fitted with double hinge roller brackets and rollers with extended shafts.

Standard track rollers consist of steel ball bearings complete with a nylon outer casing for quieter operation. For large, heavy, or frequent operation doors (e.g. 20+ operations per day), steel track rollers with steel ball bearings are used for added strength.

### FIXING REQUIREMENTS

The building construction (typically solid brick, concrete or steel) must be structurally sound and have adequate strength to support the Sectional Door and its fixing requirements. Overhead fixing points for the horizontal tracks and central motor rack are also required. Consult Technical Sales for location and further details.



# Horizon-Shine

## Aluminium Sectional Doors

### LOCKING

Manually operated doors can be either fitted with spring loaded shoot bolts on the inside (padlocks not included), or a "T" handle lock incorporating a two point locking system. NOTE: Motorised sectional doors are self-locking and are not fitted with a manual lock as standard.

### OPERATION

Sectional Doors operate from behind the opening and are typically made up of four or more horizontal hinged panels. The panels are fitted with track rollers on each side to enable the door to travel smoothly within specially designed sectional door tracks. In the open position the door rests horizontally overhead as standard. Alternative track installation (e.g. high lift or vertical lift) may be available depending on the door size, weight and application (limitations may apply). Sectional doors can be operated by hand or motorised.

### MOTORISATION

Sectional overhead doors are typically motorised by a centrally mounted overhead 'trolley' type operator, either of single-phase (240V) or three-phase (415V) power depending on size, weight and application of door. Residential applications are supplied as standard with 240V automated operator unless otherwise specified. The operator head is mounted under the ceiling to a central steel drive rack consisting of a chain or belt drive and a travelling carriage. A coupling arm connects the carriage to the top of the door enabling the door to open and close. Standard operators are fitted with a pull cord to enable emergency manual operation in case of power outage. Residential sectional operators come complete with hand transmitters for remote control access. Unless otherwise specified, commercial sectional operators come with a standard push-button station only. Specific access control requirements should be specified by the client.

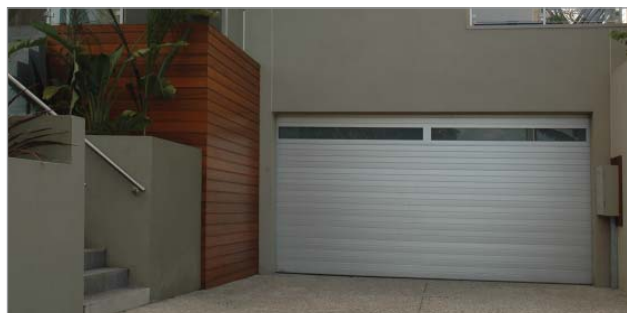
Alternative direct drive motorisation, with either single- or three-phase power is also available. In some circumstances (e.g. heavy or large doors, doors requiring commercial access control, or doors installed with high lift or vertical lift tracks) direct drive motorisation is the only suitable option. Direct drive operators are fitted to the side of the door and directly drive the steel cross shaft. The operator includes a pull cord or a hauling chain (depending on the operator) to enable emergency manual operation in case of power outage.

The provision of adequate mains power supply and GPO or isolator (as required) to motor location is the responsibility of the client. Wiring from the isolator and commissioning of the door, motor controllers and any ancillary hardware is by client, unless otherwise stated in writing.

Optional extras, such as access control accessories, safety and security accessories including; slack rope tension monitor, automatic lock mechanism and safety reversing sensors etc., are available upon specification. For further information see Door Operators & Accessories.

### OPTIONS

- Insulation
- Additional door seals
- Tapered bottom



# Reflection

## Aluminium Sectional Doors



The Reflection aluminium sectional door features a chic round edge aluminium extrusion that can be clad with either glass or acrylic. Featuring a strong, sleek and modern design, the Reflection is ideal for residential and commercial applications.

### FEATURES

- Easy to operate
- Strong construction
- Appealing design

### DOOR DIMENSIONS

#### Glass Cladding

- Maximum Height: 2600mm\*
- Maximum Width: 4900mm\*

\*Total door size must not exceed 10.5m<sup>2</sup>.

#### Acrylic Cladding

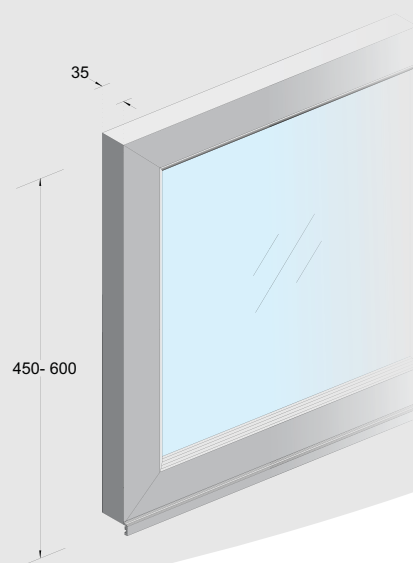
- Maximum Height: 3500mm\*\*
- Maximum Width: 6500mm\*\*

\*\*Total door size must not exceed 16.5m<sup>2</sup>.

### RECOMMENDED SPECIFICATIONS

Reflection aluminium Sectional Door with 65mm high by 35mm deep frame and selected cladding as manufactured by Airport Doors. The sectional door operates by means of horizontal hinged panels that travel vertically to the top of the door-opening and then horizontally under the ceiling.

**NOTE:** When specifying a sectional overhead door, it is important to also specify the door's intended or expected usage (i.e. number of operations per day or number of vehicles in car park). Sectional Doors are suitable for applications with a usage up to 50 operations per day. In applications requiring higher usage, counterweight doors or sliding doors are highly recommended. When specifying, please also nominate the tracking installation system required e.g. Standard Headroom, High Lift etc.



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# Reflection

## Aluminium Sectional Doors

### PANEL DETAILS

The Reflection panel consists of a contemporary 65mm high by 35mm deep extruded aluminium frame and can be clad with 4.5mm acrylic or 6.38mm laminated safety glass. Cladding is fitted into a Santoprene (PVC/Rubber compound) glazing channel to suit. Each door is custom designed to suit the application. Panel height is designed to suit door-opening height and cladding type.

### BRACING

Bracing is designed to suit door width and weight as per manufacturer's specifications. The door is braced as required using RHS and/or an 'open-web' truss to the bottom panel.

### FINISH

The aluminium extruded frame is available in natural anodised, colour anodised or a wide range of powder coat colours.

### BOTTOM RAIL

The bottom rail reinforces the bottom panel and is manufactured from a durable extruded aluminium section fitted with a PVC bottom weather seal. The weather seal minimises the gap in slightly uneven ground surfaces and reduces interior exposure of rain and leaves. The standard bottom rail has a 5mm face.

### ADDITIONAL DOOR SEALS (OPTIONAL)

Additional door seals can be provided to seal the working clearance gap around the door. Seals for fire risk areas are designed to prevent embers from entering the garage and are manufactured from a flame retardant material. Door seals also help to reduce dust and dirt from entering the garage.

### TRACKS

Standard vertical and horizontal tracks are manufactured from specially roll-formed heavy-duty galvanised steel of 50mm (2") profile. Standard tracks are designed to accommodate nylon track rollers. NOTE: 75mm (3") tracks with steel track rollers are used for large or heavy doors, or where required for frequent usage. Horizontal tracks are reinforced with 40mm by 40mm steel angle and are supported 200mm-300mm from each end. Where tracks exceed 3000mm, additional centre supports will also be provided.

### SPRINGS

Torsion springs are typically made from 5.6mm to 9mm thick oil tempered spring wire and are designed to suit the door size and weight and tensioned to correctly balance the door. The springs (as standard) are mounted along a steel cross shaft (torsion bar) directly above the door behind the lintel.

**NOTE:** For low headroom track applications, the cross shaft & springs may be required to be mounted at the end of the horizontal tracks.

### HARDWARE

Cable drums are attached to each end of the steel cross shaft. Galvanised steel wire cables run from the cable drums to the bottom steel anchor brackets at the bottom ends of the door. As the cable drums turn, by means of the torsion springs and cross shaft, the cables wind on or off the grooves of the cable drums to lift the door up or down.

Sectional door support brackets are manufactured from galvanised steel. Horizontal track support brackets are attached to adjacent walls (where wall distance is 600mm or less) or supported from the ceiling.

Sectional door hinges are manufactured from galvanised steel for strength and durability. Doors that exceed 5500mm in width are fitted with double hinge roller brackets and rollers with extended shafts.

Standard track rollers consist of steel ball bearings complete with a nylon outer casing for quieter operation. For large, heavy, or frequent operation doors (e.g. 20+ operations per day), steel track rollers with steel ball bearings are used for added strength.

### FIXING REQUIREMENTS

The building construction (typically solid brick, concrete or steel) must be structurally sound and have adequate strength to support the Sectional Door and its fixing requirements. Overhead fixing points for the horizontal tracks and central motor rack are also required. Consult Technical Sales for location and further details.

### LOCKING

Manually operated doors can be either fitted with spring loaded shoot bolts on the inside (padlocks not included), or a "T" handle lock incorporating a two point locking system. NOTE: Motorised sectional doors are self-locking and are not fitted with a manual lock as standard.



# Reflection

## Aluminium Sectional Doors

### OPERATION

Sectional Doors operate from behind the opening and are typically made up of four or more horizontal hinged panels. The panels are fitted with track rollers on each side to enable the door to travel smoothly within specially designed sectional door tracks. In the open position the door rests horizontally overhead as standard. Alternative track installation (e.g. high lift or vertical lift) may be available depending on the door size, weight and application (limitations may apply). Sectional doors can be operated by hand or motorised.

### MOTORISATION

Sectional overhead doors are typically motorised by a centrally mounted overhead 'trolley' type operator, either of single-phase (24DC/240v or 240v) or three-phase (415v) power depending on size, weight and application of door. Residential applications are supplied as standard with 24DC/240v automated operator unless otherwise specified. The operator head is mounted under the ceiling to a central steel drive rack consisting of a chain or belt drive and a travelling carriage. A coupling arm connects the carriage to the top of the door enabling the door to open and close. Standard operators are fitted with a pull cord to enable emergency manual operation in case of power outage. Residential sectional operators come complete with hand transmitters for remote control access. Unless otherwise specified, commercial sectional operators come with a standard push-button station only. Specific access control requirements should be specified by the client.

Alternative direct drive motorisation, with either single- or three-phase power is also available. In some circumstances (e.g. heavy or large doors, doors requiring commercial access control, or doors installed with high lift or vertical lift tracks)

direct drive motorisation is the only suitable option. Direct drive operators are fitted to the side of the door and directly drive the steel cross shaft. The operator includes a pull cord or a hauling chain (depending on the operator) to enable emergency manual operation in case of power outage.

The provision of adequate mains power supply and GPO or isolator (as required) to motor location is the responsibility of the client. Wiring from the isolator and commissioning of the door, motor controllers and any ancillary hardware is by client, unless otherwise stated in writing.

Optional extras, such as access control accessories, safety and security accessories including; slack rope tension monitor, automatic lock mechanism and safety reversing sensors etc., are available upon specification. For further information see Door Operators & Accessories.

### OPTIONS

- Cladding infills (6.38mm glass or 4.5mm acrylic)
- Additional door seals
- Tapered bottom



# Austin

## Aluminium Sectional Doors



The Austin aluminium sectional door has an elegant and timeless design ideal for contemporary style homes and commercial applications such as showrooms, workshops or small car parks. The Austin can be clad using a variety of cladding materials to truly enhance and complement the visual appearance of the façade.

### FEATURES

- Easy to operate
- Optional vision/ventilation panels
- Appealing designs
- Cladding options

### DOOR DIMENSIONS

#### Glass Cladding

- Maximum Height: 2600mm\*
- Maximum Width: 4900mm\*

\*Total door size must not exceed 10.5m<sup>2</sup>.

#### Other Cladding Types

- Maximum Height: 3500mm\*\*
- Maximum Width: 7400mm\*\*

\*\*Total door weight must not exceed 280kg for residential use. Special requirements may be possible for commercial or industrial applications up to 350kg (consult Technical Sales for details).

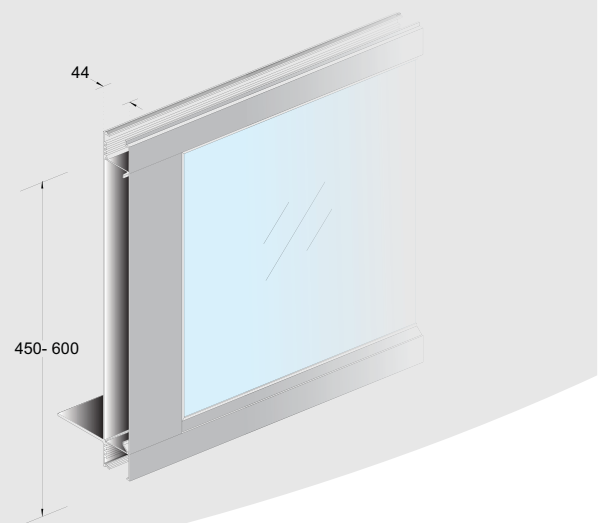
**NOTE:** The above dimensions are a guide only and restrictions may apply; door size is largely dependent on cladding type, weight and application.

### RECOMMENDED SPECIFICATIONS

The Austin Sectional Door with aluminium extruded frame and selected cladding as manufactured by Airport Doors. The sectional door operates by means of horizontal hinged

panels that travel vertically to the top of the door-opening and then horizontally under the ceiling.

**NOTE:** When specifying a sectional overhead door, it is important to also specify the door's intended or expected usage (i.e. number of operations per day or number of vehicles in car park). Sectional Doors are suitable for applications with a usage up to 50 operations per day. In applications requiring higher usage, counterweight doors or sliding doors are highly recommended. When specifying, please also nominate the tracking installation system required e.g. Standard Headroom, High Lift etc.



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# Austin

## Aluminium Sectional Doors

### PANEL DETAILS

The Austin sectional door encompasses a strong and sleek aluminium "box-type" frame machined to match the profiles of the mating members and bolted together using full length bolts to provide a weather tight interlocking joint. The panels are manufactured up to 600mm in height and consist of vertical dividers where required by design, or as per manufacturer's specifications. The Austin's smart design allows for a diverse range of cladding materials in a variety of thicknesses (restrictions may apply due to size or weight limitations).

### CLADDING MATERIALS

Various cladding options including glass, acrylic, aluminium sheet, perforated aluminium, plywood etc can be provided up to 7mm thick. Cladding restrictions may apply depending on door size, weight or application. Consult Technical Sales for further details. The Austin has the added advantage of possible on-site cladding replacement, should it be required.

### BRACING

Bracing is designed to suit door width and weight as per manufacturer's specifications. The door is braced as required using RHS and/or an 'open-web' truss to the bottom panel.

### FINISH

The aluminium extruded frame is available in natural anodised, colour anodised or a wide range of powder coat colours.

### BOTTOM RAIL

The bottom rail reinforces the bottom panel and is manufactured from a durable extruded aluminium section fitted with a PVC bottom weather seal. The weather seal minimises the gap in slightly uneven ground surfaces and reduces interior exposure of rain and leaves. The standard bottom rail has a 5mm face.

### ADDITIONAL DOOR SEALS (OPTIONAL)

Additional door seals can be provided to seal the working clearance gap around the door. Seals for fire risk areas are designed to prevent embers from entering the garage and are manufactured from a flame retardant material. Door seals also help to reduce dust and dirt from entering the garage.

### TRACKS

Standard vertical and horizontal tracks are manufactured from specially roll-formed heavy-duty galvanised steel of 50mm (2") profile. Standard tracks are designed to accommodate nylon track

rollers. NOTE: 75mm (3") tracks with steel track rollers are used for large or heavy doors, or where required for frequent usage.

Horizontal tracks are reinforced with 40mm by 40mm steel angle and are supported 200mm-300mm from each end. Where tracks exceed 3000mm, additional centre supports will also be provided.

### SPRINGS

Torsion springs are typically made from 5.6mm to 9mm thick oil tempered spring wire and are designed to suit the door size and weight and tensioned to correctly balance the door. The springs (as standard) are mounted along a steel cross shaft directly above the door behind the lintel. NOTE: For low headroom track applications, the cross shaft & springs may be required to be mounted at the end of the horizontal tracks.

### HARDWARE

Cable drums are attached to each end of the steel cross shaft. Galvanised steel wire cables run from the cable drums to the bottom steel anchor brackets at the bottom ends of the door. As the cable drums turn, by means of the torsion springs and cross shaft, the cables wind on or off the grooves of the cable drums to lift the door up or down.

Sectional door support brackets are manufactured from galvanised steel. Horizontal track support brackets are attached to adjacent walls (where wall distance is 600mm or less) or supported from the ceiling.

Sectional door hinges are manufactured from galvanised steel for strength and durability. Doors that exceed 5500mm in width are fitted with double hinge roller brackets and rollers with extended shafts.

Standard track rollers consist of steel ball bearings complete with a nylon outer casing for quieter operation. For large, heavy, or frequent operation doors (e.g. 20+ operations per day), steel track rollers with steel ball bearings are used for added strength.

### FIXING REQUIREMENTS

The building construction (typically solid brick, concrete or steel) must be structurally sound and have adequate strength to support the Sectional Door and its fixing requirements. Overhead fixing points for the horizontal tracks and central motor rack are also required. Consult Technical Sales for location and further details.

### LOCKING

Manually operated doors can be either fitted with spring loaded shoot bolts on the inside (padlocks not included), or a "T" handle lock incorporating a two point locking system. NOTE: Motorised



# Austin

## Aluminium Sectional Doors

sectional doors are self-locking and are not fitted with a manual lock as standard.

### OPERATION

Sectional Doors operate from behind the opening and are typically made up of four or more horizontal hinged panels. The panels are fitted with track rollers on each side to enable the door to travel smoothly within specially designed sectional door tracks. In the open position the door rests horizontally overhead as standard. Alternative track installation (e.g. high lift or vertical lift) may be available depending on the door size, weight and application (limitations may apply). Sectional doors can be operated by hand or motorised.

### MOTORISATION

Sectional overhead doors are typically motorised by a centrally mounted overhead 'trolley' type operator, either of single-phase (24DC/240v or 240v) or three-phase (415v) power depending on size, weight and application of door. Residential applications are supplied as standard with 24DC/240v automated operator unless otherwise specified. The operator head is mounted under the ceiling to a central steel drive rack consisting of a chain or belt drive and a travelling carriage. A coupling arm connects the carriage to the top of the door enabling the door to open and close. Standard operators are fitted with a pull cord to enable emergency manual operation in case of power outage. Residential sectional operators come complete with hand transmitters for remote control access. Unless otherwise specified, commercial sectional operators come with a standard push-button station only. Specific access control requirements should be specified by the client.

Alternative direct drive motorisation, with either single- or three-phase power is also available. In some circumstances (e.g. heavy or large doors, doors requiring commercial access control, or doors installed with high lift or vertical lift tracks) direct drive motorisation is the only suitable option. Direct drive operators are fitted to the side of the door and directly drive the steel cross shaft. The operator includes a pull cord or a hauling chain (depending on the operator) to enable emergency manual operation in case of power outage.

The provision of adequate mains power supply and GPO or isolator (as required) to motor location is the responsibility of the client. Wiring from the isolator and commissioning of the door, motor controllers and any ancillary hardware is by client, unless otherwise stated in writing.

Optional extras, such as access control accessories, safety and security accessories including; slack rope tension monitor, automatic lock mechanism and safety reversing sensors etc., are available upon specification. For further information see Door Operators & Accessories.

### OPTIONS

- Cladding options (up to 7mm thick)
- Additional door seals





# Timber Sectional Doors

## Timber Sectional Doors



Timber Sectional Doors are available in a wide variety of sophisticated panel designs and finishes and provide a warm, cozy and welcoming impression. Typically manufactured from Western Red Cedar, these quality doors can truly enhance and complement the façade.

### FEATURES

- Western Red Cedar timber
- Easy to operate
- Appealing designs
- Optional windows

### MAXIMUM DOOR SIZE

- Maximum Height: 3320mm
- Maximum Width: 6000mm

**NOTE:** Maximum dimensions are a guide only.

### RECOMMENDED SPECIFICATIONS

Timber Sectional Door in selected panel design and finish. The sectional door operates by means of horizontal hinged panels that travel vertically to the top of the door-opening and then horizontally under the ceiling.

**NOTE:** When specifying a sectional overhead door, it is important to also specify the door's intended or expected usage (i.e. number of operations per day or number of vehicles in car park). Sectional Doors are suitable for applications with a usage up to 50 operations per day. In applications requiring higher usage, counterweight doors or sliding doors are highly recommended. When specifying, please also nominate the tracking installation system required e.g. Standard Headroom, High Lift etc.

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# Timber Sectional Doors

## Timber Sectional Doors

### PANEL DETAILS

As standard panels are manufactured from Western Red Cedar 'Standard Grade'. Alternative timbers, may be available upon specification. NOTE: Due to weight and availability of alternative timbers, size or design restrictions may apply.

Timber panel thicknesses vary depending on the chosen design. The 'Hamilton' profile has horizontal slats and unless otherwise specified are V-joined together as standard. The selected timber profile is glued and nailed to an aluminium frame to form panels of up to 600mm in height.

### BRACING

Where required by design to match the door size and weight, Steel Struts are used to brace the door.

### FINISH

Timber Sectional Doors can be supplied with a fully sealed Sikkens finish. Fully sealed Sikkens finish is a colour sealer coat available in Dark Oak (as standard), Walnut or Mahogany. Other finish colours may be available. Alternatively, timber sectional doors may also be supplied; oiled (using CD50 oil); part sealed Sikkens (allowing customer to apply a suitable colour topcoat), primed (ready for customer to paint the door); or raw (allowing the end user to treat the door as desired).

The timbers used in Timber Sectional Doors are of a high quality; however due to the nature of timber itself, consistency of colours and patterns cannot be guaranteed.

### TIMBER PRESERVATION

Like most exterior timbers, Western Red Cedar requires some tender loving care to keep it looking its best. To ensure long lasting timber protection, it is recommended that the end user inspects the door regularly and re-applies the appropriate finish at the first sign of timber ageing. Sikkens Superior Sealed timber finishes require re-application approximately every 2-5 years. As a guide, North or West facing doors should be recoated every 2 years, while South or East facing should be recoated every 4-5 years. Oiled doors should be re-coated more regularly (approx every 1-3 years).

### WINDOWS (OPTIONAL)

Clear acrylic, glass or leadlight window designs can be provided to enhance the appearance of the door and façade and allow natural light to filter into the garage.

### BOTTOM RAIL

A strong aluminium extruded bottom rail with a durable PVC weather seal is fitted to the bottom of the door in order to provide additional reinforcement and to minimise leaves and rain from entering under the door.

### ADDITIONAL DOOR SEALS (OPTIONAL)

Additional door seals can be provided to seal the working clearance gap around the door. Seals for fire risk areas are designed to prevent embers from entering the garage and are manufactured from a flame retardant material. Door seals also help to reduce dust and dirt from entering the garage.

### DOOR TRACKS

Standard vertical and horizontal tracks are manufactured from specially roll-formed heavy-duty galvanised steel of 50mm (2") profile. Standard tracks are designed to accommodate nylon track rollers. NOTE: 75mm (3") tracks with steel track rollers are used for large or heavy doors, or where required for frequent usage. Horizontal tracks are reinforced with 40mm by 40mm steel angle and are supported 200mm-300mm from each end. Where tracks exceed 3000mm, additional centre supports will also be provided.

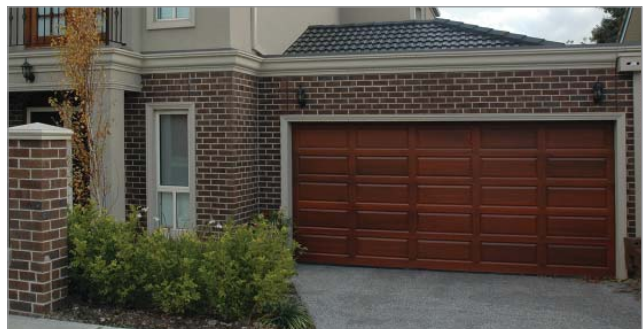
### SPRINGS

Torsion springs are typically made from 5.6mm to 9mm thick oil tempered spring wire and are designed to suit the door size and weight and tensioned to correctly balance the door. The springs (as standard) are mounted along a steel cross shaft directly above the door behind the lintel. NOTE: For low headroom track applications, the cross shaft & springs may be required to be mounted at the end of the horizontal tracks.

### HARDWARE

Cable drums are attached to each end of the steel cross shaft. Galvanised steel wire cables run from the cable drums to the bottom steel anchor brackets at the bottom ends of the door. As the cable drums turn, by means of the torsion springs and cross shaft, the cables wind on or off the grooves of the cable drums to lift the door up or down.

Sectional door support brackets are manufactured from galvanised steel. Horizontal track support brackets are attached to adjacent walls (where wall distance is 600mm or less) or supported from the ceiling.



# Timber Sectional Doors

## Timber Sectional Doors

Sectional door hinges are manufactured from galvanised steel for strength and durability. Doors that exceed 5500mm in width are fitted with double hinge roller brackets and rollers with extended shafts.

Standard track rollers consist of steel ball bearings complete with a nylon outer casing for quieter operation. For large, heavy, or frequent operation doors (e.g. 20+ operations per day), steel track rollers with steel ball bearings are used for added strength.

### FIXING REQUIREMENTS

The building construction (typically solid brick, concrete or steel) must be structurally sound and have adequate strength to support the Sectional Door and its fixing requirements. Overhead fixing points for the horizontal tracks and central motor rack are also required. Consult Technical Sales for location and further details.

### LOCKING

Manually operated timber sectional doors can be either fitted with; spring loaded shoot bolts on the inside (padlocks not included), or a "T" handle lock incorporating a two point locking system. NOTE: Motorised sectional doors are self-locking and are not fitted with a manual lock as standard.

### OPERATION

Sectional Doors operate from behind the opening and are typically made up of four or more horizontal hinged panels. The panels are fitted with track rollers on each side to enable the door to travel smoothly within specially designed sectional door tracks. In the open position the door rests horizontally overhead as standard. Alternative track installation (e.g. high lift or vertical lift) may be available depending on the door size, weight and application (limitations may apply). Sectional doors can be operated by hand or motorised.

### MOTORISATION

Sectional overhead doors are typically motorised by a centrally mounted overhead 'trolley' type operator, either of single-phase (24DC/240v or 240v) or three-phase (415v) power depending on size, weight and application of door. Residential applications are supplied as standard with 24DC/240v automated operator unless otherwise specified. The operator head is mounted under the ceiling to a central steel drive rack consisting of a chain or belt drive and a travelling carriage. A coupling arm connects the carriage to the top of the door enabling the door to open and close.

Standard operators are fitted with a pull cord to enable emergency manual operation in case of power outage. Residential sectional operators come complete with hand transmitters for remote control access. Unless otherwise specified, commercial sectional operators come with a standard push-button station only. Specific access control requirements should be specified by the client.

Alternative direct drive motorisation, with either single- or three-phase power is also available. In some circumstances (e.g. heavy or large doors, doors requiring commercial access control, or doors installed with high lift or vertical lift tracks) direct drive motorisation is the only suitable option. Direct drive operators are fitted to the side of the door and directly drive the steel cross shaft. The operator includes a pull cord or a hauling chain (depending on the operator) to enable emergency manual operation in case of power outage.

The provision of adequate mains power supply and GPO or isolator (as required) to motor location is the responsibility of the client. Wiring from the isolator and commissioning of the door, motor controllers and any ancillary hardware is by client, unless otherwise stated in writing.

Optional extras, such as access control accessories, safety and security accessories including; slack rope tension monitor, automatic lock mechanism and safety reversing sensors etc., are available upon specification. For further information see Door Operators & Accessories.

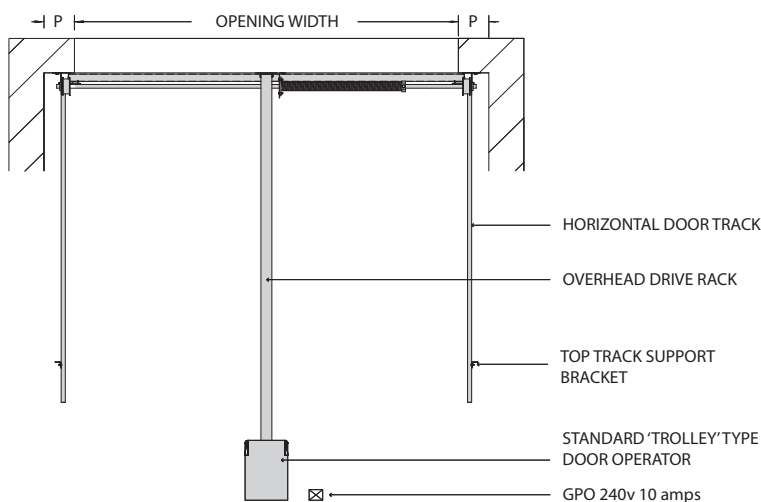
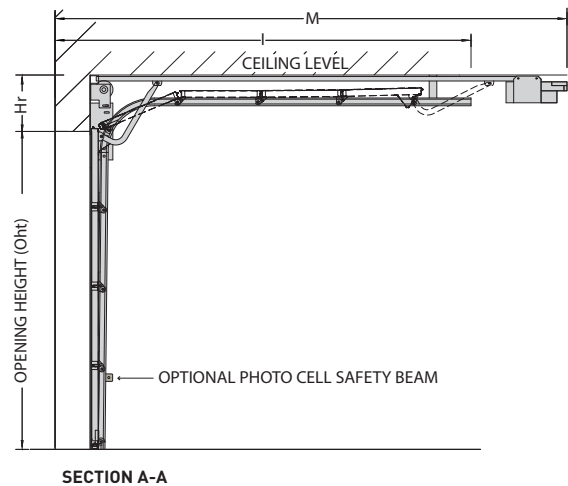
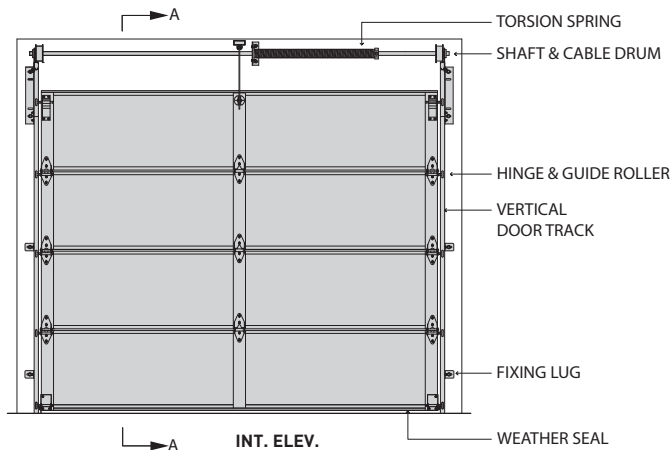
### OPTIONS

- Windows
- Additional door seals
- Tapered bottom



# Standard Headroom

## Technical Specs: Sectional Doors



PLAN VIEW

**NOTE:**

- SHOWN IS MINIMUM STANDARD HEADROOM INSTALLATION.
- THE DOOR OPERATOR AND DRIVE RACK FIT DIRECTLY UNDER THE CEILING IN THE MIDDLE OF THE OPENING.
- WHERE THERE IS MORE HEADROOM THAN NEEDED, STEEL DROPPERS ARE USED TO SUSPEND THE OPERATOR IN POSITION.
- OVERHEAD SUPPORTING STRUCTURE IS REQUIRED AT OPERATOR LOCATION.
- NOTE: ALTERNATIVE DIRECT DRIVE OPERATORS ARE ALSO AVAILABLE. THESE TURN THE SHAFT DIRECTLY USING A THROUGH SHAFT GEARBOX AND MOTOR.

### CLEARANCE DETAILS (STANDARD HEADROOM)

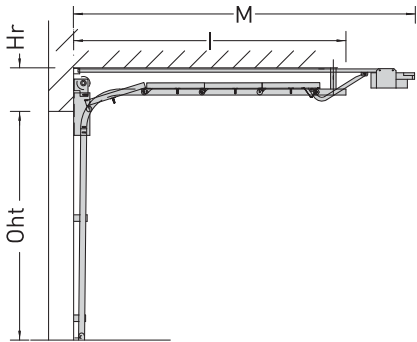
Oht*	Hr	I	M	OPERATION	P
<b>Sectional Door - up to 175kg</b>					
3600	350	Oht + 400	N/A	Hand Operation	120
3600	380	Oht + 400	Oht + 1000	Motorisation: 'Trolley' type operator	120
<b>Sectional Door - 176-250kg</b>					
3600	430	Oht + 400	Oht + 1000	Motorisation: 'Trolley' type operator	200
<b>Heavy Duty Sectional Door - 251-350kg (not recommended for residential use)</b>					
4200	450	Oht + 400	Oht + 1000	Motorisation: 'Trolley' type operator	200

**Notes:**

- \* Oht = Opening Height

# Track Installation Options

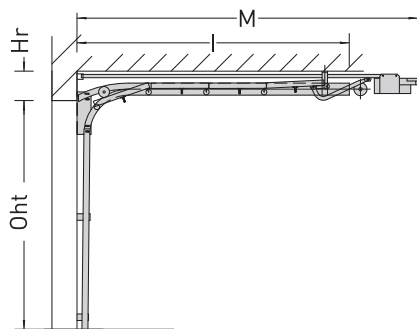
## Technical Specs: Sectional Doors



### Sectional Door - Standard Headroom

Standard headroom installation is the most common and recommended type of sectional door installation. This installation is standard with all sectional doors unless otherwise specified.

Please see Standard Headroom Technical Specification drawing and clearance information.



### Sectional Door - Low Headroom (Non-Standard)

Low headroom installation is used in circumstances where standard installation is not achievable. **NOTE:** Door size, weight and application restrictions apply. Low headroom installation is not suitable for large or heavy doors, or applications with multiple car parks (such as commercial car parks).

#### CLEARANCE DETAILS

Oht*	Hr	I	M	OPERATION	P	G
<b>Low Headroom - up to 175kg</b>						
3600	240	Oht + 600	Oht + 1000	Hand Operation	150	N/A
3600	270	Oht + 600	Oht + 1000	Motorisation: 'Trolley' type operator	150	N/A
3600	320	Oht + 600	Oht + 1000	Motorisation: 'Trolley' type operator	200	N/A

#### Notes:

\*Oht = Opening Height

#### Note:

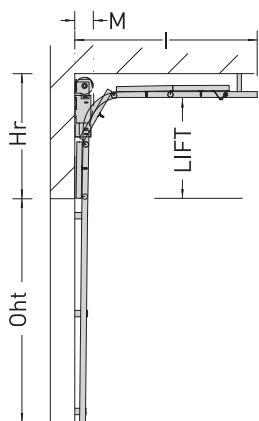
Non standard track installations are subject to size, weight and application (e.g. frequency of use) restrictions. Unless otherwise specified, installation type will be standard headroom installation. Please stipulate track installation type required when specifying. Consult Technical Sales for further information.



# Track Installation Options

Continued

## Technical Specs: Sectional Doors



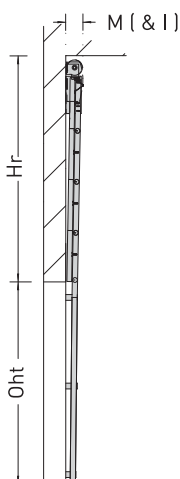
### Sectional Door - High Lift Installation (Non-Standard)

High Lift installation is ideal for applications where there is a large distance between the ceiling and the bottom of the lintel and where maximum internal height clearance is required (when door is open). Motorisation of high lift sectional doors is by direct drive.

CLEARANCE DETAILS						
DIMENSIONS					SIDEROOM	
Oht*	Hr	I	M	OPERATION	P	G
<b>High Lift</b>						
3600	Lift+310	Oht+600-Lift	400	Motorisation: Direct Drive	200	380

#### Notes:

- \*Opening Height
- Lift= Clear vertical distance between bottom of lintel & horizontal track



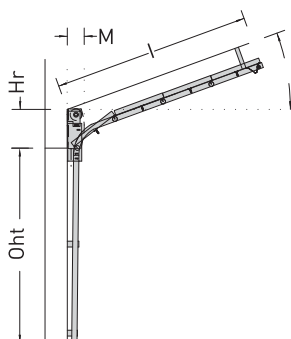
### Sectional Door - Vertical Lift Installation (Non-Standard)

Vertical Lift installation for sectional doors is available as an option; however the Vertical Lift Counterweight Door is a much more superior option, as there are less moving components. Vertical Lift Sectional Door motorisation is by direct drive.

CLEARANCE DETAILS						
DIMENSIONS					SIDEROOM	
Oht*	Hr	I	M	OPERATION	P	G
<b>Vertical Lift</b>						
3600	Oht+310	450	400	Motorisation: Direct Drive	200	380

#### Notes:

- \*Opening Height



### Sectional Door - Angle Lift Installation (Non-Standard)

Angle Lift (or follow the roof) installation can be provided up to a maximum angle of 20 degrees and maximum of 10 operations per day. NOTE: Door size, weight and application restrictions apply. Angle Lift installation is not suitable for large or heavy doors, or applications with multiple car parks (such as commercial car parks). Motorisation of Angle Lift installation can be by either 'trolley' type or direct drive, depending on application.

CLEARANCE DETAILS						
DIMENSIONS					SIDEROOM	
Oht*	Hr	I	M	OPERATION	P	G
<b>Angle Lift</b>						
3600	Min 350	Oht+600-350	400	Motorisation: Direct Drive	200	380

#### Notes:

- \*Opening Height

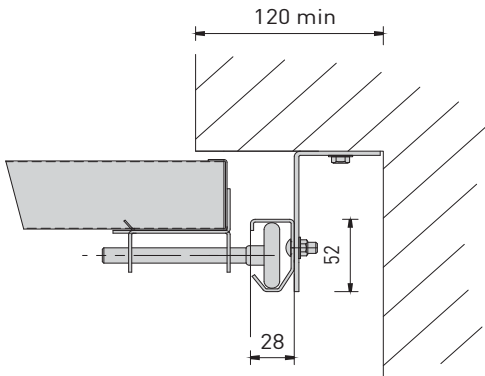
**NOTE:** Non standard track installations are subject to size, weight and application (e.g. frequency of use) restrictions. Unless otherwise specified, installation type will be standard headroom installation. Please stipulate track installation type required when specifying. Consult Technical Sales for further information.

# Door Tracks & Direct Drive

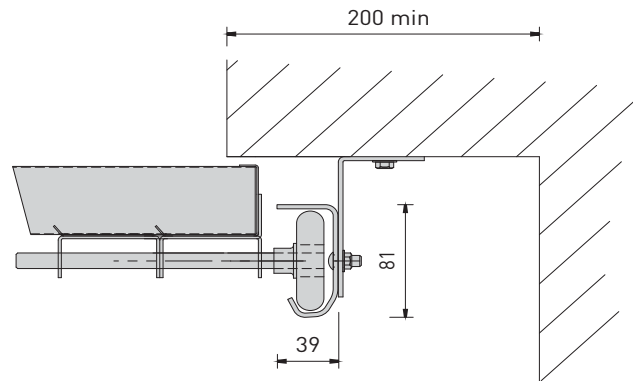
## Technical Specs: Sectional Doors

### SECTIONAL DOORS STANDARD DOOR TRACKS

#### STANDARD 2" TRACK



#### HEAVY DUTY 3" TRACK



### DIRECT DRIVE ( 'JACK SHAFT' ) OPERATOR

- DIRECT DRIVE IS AN ALTERNATIVE METHOD OF MOTORISATION MAINLY USED WITH HIGH, ANGLED OR VERTICAL LIFT INSTALLATIONS, AND HEAVY OR LARGE DOORS.
- THE OPERATOR DIRECTLY DRIVES THE TORSION SHAFT.
- ELECTRICAL OR MECHANICAL MEANS OF MONITORING THE CABLE TENSION IS REQUIRED FOR SAFETY AND SEPERATE LOCKING OF THE DOOR IS ADVISED.
- AS A VARIETY OF OPERATORS ARE USED, THIS DIAGRAM IS INDICATIVE ONLY.
- THE OPERATOR IS SELECTED TO SUIT THE APPLICATION AS WELL AS DOOR SIZE, WEIGHT AND INSTALLATION.
- TYPICALLY 415v 3 PHASE OPERATORS ARE USED WITH COMMERCIAL CARPARK DOORS FOR INSTANCE
- SAFETY SENSORS (EG. PE BEAMS, SAFETY EDGE SENSORS ETC.) ARE RECOMMENDED.

#### NOTE:

Direct Drive Operators are not suitable for Low Headroom installations

