Airport Doors’ Sliding Doors and Gates are superb for wide openings and are typically used in residential, commercial and industrial applications, such as car parks, fence lines, factories, warehouses, and showrooms. Sliding Doors and Gates can be clad in a wide range of cladding materials and are available in two styles; Top Track Sliding or Floor Track Sliding (suitable for larger & heavier doors). Sliding Doors and Gates can be designed as a single-leaf or multi-leaf door as required.

**FEATURES**
- Wide range of cladding options
- Suitable for large openings
- Minimal maintenance
- Long Lasting

**TOP TRACK SLIDING - DOOR DIMENSIONS**
- Maximum Height: 4000mm*
- Maximum Width: 10000mm*
*Total door weight must not exceed 650kg.
For large openings, multi-leaf sliding doors are recommended to reduce the size and weight of each leaf. For best operating results, the width of each leaf should not exceed two thirds of the door height.

**FLOOR TRACK SLIDING - DOOR DIMENSIONS**
- Maximum Height: 6000mm*
- Maximum Width: 10000mm*
*Total door weight must not exceed 2000kg.

**NOTE:** In special applications Floor Track Sliding Doors/Gates may be available in larger sizes up to a maximum of 15m high and maximum of 30m wide. Consult Technical Sales for further information.

**RECOMMENDED SPECIFICATIONS**
Single- or multi-leaf Sliding Door (or Gate) consisting of steel frame, selected cladding and selected track type (Top Track or Floor Track) as manufactured by Airport Doors.
Sliding Doors and Gates are custom-made to suit the door opening and specific application. The client’s design and specification requirements must be clearly stipulated.
Top Track & Floor Track Sliding

Sliding Doors & Gates

**DOOR OPENING & FIXING REQUIREMENTS**

The door operates behind or in front of the opening. It is the responsibility of the architect/builder to provide structurally adequate beams, columns, walls and floor to carry all design loads. Specifically the top track sliding door/gate requires an adequate beam or lintel to carry the door load. The floor track sliding door/gate requires a level floor over the extent of the opening and door travel. Refer to Technical Specifications for clearance information.

**NOTE:** For heavy vehicular traffic, and industrial applications both guides and floor tracks should be cast into the floor.

**DOOR FRAME AND HARDWARE**

The door frame is constructed using Dual Grade C350LO/ C450LO Duragal. RHS rectangular hollow steel sections, braced and trusted as required and designed in accordance with AS4100 (Steel Structures) and to comply with the provisions of AS/NZS 4505:2012 (Garage doors and other large access doors) and AS1170 Part 1-2 (Wind Loads). Unless otherwise specified, the minimum design wind load is Region A5, Category 3.

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. Standard hardware is available for door panels from 120kg to 650kg.

**TOP TRACK SLIDING HARDWARE**

Top Track Sliding Doors/Gates are fitted with ball bearing loaded sliding carriages (trolleys). The carriage rollers roll smoothly within a galvanised steel roll-formed track, fixed above the door head. The bottom of the door is guided by means of either a ‘Standard Above Ground Floor Guide’ or alternatively by a ‘Cast in Channel & Guide Pin’. **NOTE:** The standard Airport Doors Top Track Sliding Door is not recommended for doors over 650kg.

**FLOOR TRACK SLIDING HARDWARE**

Floor Track Sliding Doors/Gates are fitted with two machined, sealed bearing loaded wheels, profiled to suit either 1) an above ground track or; 2) an in-ground track.

1. The ‘Above Ground “U” Formed Floor Track’ is used for light duty applications such as residential and light commercial. It is metal, press metal galvanised steel guide, laid and masonry anchored to a level floor. The top of the gate shall be guided by adjustable rollers fitted to the wall.

2. The ‘Cast In Floor Track’ is typically used for heavy vehicular traffic and industrial applications. It is a level continuous slot formed between two angles recessed into concrete.

**CLADDING**

Sliding Doors and Gates can be designed to accommodate and match various cladding materials including bar grille, glass (single or double glazed), steel or aluminium sheet, timber, mesh etc. **NOTE:** Depending on the weight, size, or application of materials, restrictions may apply. See also Cladding Options and Technical Specifications.

**PERSONAL ACCESS (PA) DOORS (OPTIONAL)**

Where there is no other entrance into the building, PA Entry Doors (opening inwards) can be built into the Sliding Door or Gate. Restrictions apply. **NOTE:** PA Doors have a stepover threshold and do not comply as fire exits. PA Doors must be kept shut when operating the main door. Optional ‘door closer’ and/or ‘door monitoring switch’ are available and highly recommended.

**LOCKING**

Manually operated Sliding Doors/Gates are fitted with a hasp and staple or a long-shoot pad bolt with provision for padlocking. Padlocks not included. The lock is fixed internally and fitted to one side of the door unless otherwise specified. When specified, key lockable bolts, or similar, are available as an alternative.

**NOTE:** Motorised doors are self-locking and are not fitted with additional locks.

**OPERATION**

Sliding Doors operate from behind the opening (as standard) on either a top hung track (Top Track Sliding) or a floor track (Floor Track Sliding). Single leaf sliding doors slide to one side of the opening, while multi-leaf sliding doors can be either bi-parting or single side sliding (using multiple tacks). Airport Doors’ sliding doors/gates can be hand operated (up to 650kg) or motorised for ease of use and convenience. See also Method of Operation.

**MOTORISATION**

Standard motorisation is typically via a sliding gate operator which uses a toothed rack and spur gear drive. The operator comes complete with logic control and optional access control accessories.

Operator selection is dependent on availability of power, door usage, door weight and door access requirements. Motorisation is available in three-phase [415v], single-phase [240v] or 24DC/240v. Single-phase is suitable for doors up to 650kgs door weight. Residential applications are typically supplied with 24DC/240v automated operator. Motorised doors incorporate a manual release mechanism for manual operation (in case of a power outage).

The provision of adequate mains power supply and isolator or GPO (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 battery back-up and access control accessories are available upon specification.

**NOTE:** For safety, Photoelectric Beams (PE Beams) are highly recommended. Where doors are automated by a radio control, PE Beams are a requirement. A Through-Beam must be used on all government installations.

For further information see Door Operators & Accessories.

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Top Track Sliding Door/Gate

Technical Specs: Sliding Doors and Gates

CLEARANCE DETAILS

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For larger door sizes and multiple door panel designs, consult Technical Sales.

KEY

I = Opening Width + P + G. (Single-leaf Sliding Door internal projection along wall)

I = Leaf Width + P + G. (Multi-leaf Sliding Door internal projection along wall)

SHr: Soffit fixed track headroom applications where max. drive through height is required

S: Manual Sheeted Door

Gl: Manual Glazed Door

El: Electrically Operated Door

For full KEY reference, see ‘Technical Specs and Clearance Details KEY’ in the Product Selection Guide section.
### Technical Specs: Sliding Doors and Gates

**CLEARANCE DETAILS**

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For larger door sizes and multiple door panel designs, consult Technical Sales.

**KEY**

- **Ghr**: Gate headroom (applications where door is counterlev¬ered/supported off posts or brick wall fencing)
- **I**: Opening Width + P + G. (Single-leaf Sliding Door internal projection along wall)
- **I**: Leaf Width + P + G. (Multi-leaf Sliding Door internal projection along wall)
- **S**: Manual Sheeted Door
- **GL**: Manual Glazed Door
- **EL**: Electrically Operated Door

For full KEY reference, see “Technical Specs and Clearance Details KEY” in the Product Selection Guide section.

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Track Details
Technical Specs: Sliding Doors and Gates

TOP TRACK SLIDING
SIDE FIX (SECTION A-A)

SOFFIT FIX

FLOOR TRACK SLIDING
ABOVE GROUND “U” FORMED FLOOR TRACK (SECTION A-A)

CAST IN FLOOR TRACK

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