

# Glide-Up Door

## Counterweight Doors



Glide-Up Doors are a single panel, "half-in, half-out" counterweight door that can be clad in a variety of materials including timber, steel or aluminium sheet, glass etc. Encompassing strength and durability, Glide-Up Doors are commonly used for residential and commercial applications, such as garages, car park entries, workshops, showrooms, room dividers etc.

### FEATURES

- Counterweight balance
- Wide range of cladding options
- Ease of operation
- Minimal maintenance
- Long lasting

### DOOR DIMENSIONS

- Maximum Height: 3000mm
- Maximum Width: 10000mm

(If larger door sizes are required, please consult Technical Sales)

**NOTE:** Maximum dimensions are a guide only and may vary due to wind loading and cladding type. Consult Technical Sales for further information.

### RECOMMENDED SPECIFICATIONS

Glide-Up Door, consisting of a single steel framed panel with selected cladding, and inclusive of all hardware, as manufactured by Airport Doors. Balanced by means of counterweights, the open door protrudes "half in and half out" of the opening.

**NOTE:** Glide-Up Doors are custom-made to suit the door opening and specific application. The client's design and specification requirements must be clearly stipulated.

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### DOOR OPENING

The door fits below the lintel and operates within the opening; therefore all sides must be plumb and true. **IMPORTANT:** Allowance for the thickness of the door and working clearance must be made when designing the opening to give the required drive through clearance. Refer to Technical Specifications for clearance information.

### FIXING REQUIREMENTS

It is the responsibility of the architect/builder to provide structurally adequate columns/walls to carry all design loads. Refer to Technical Specifications for clearance information.

### DOOR FRAME AND HARDWARE

The door frame is constructed using Dual Grade C350LO/ C450LO DuraGal® RHS rectangular hollow steel sections, braced and trussed 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. The counterweight system is subject to the SAA Crane Code. A minimum Safety Factor of 5 applies to the wire rope sizing and a minimum ratio of 22:1 applies to the pulleys. Sealed ball bearings or bushings are used at the load points.

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

The Glide-Up Door can be designed to accommodate and match various cladding materials including glass, 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.

### DOOR SEALS

Glide-Up Doors are designed to fit within the opening as standard, therefore a typical working clearance of 15mm on

each side and at the top of the door is required, as well as a typical working clearance of 25mm at the bottom of the door. As standard, brush seals are fitted at the top and to each side of the door and a PVC bulb seal is fitted to the bottom of the door. **NOTE:** Standard seals reduce draughts and exposure to weather, however they are not watertight. Alternative sealing such as seals combined with thresholds may be available when specified.

### COUNTERWEIGHT COVERS

Steel counterweights are enclosed and protected using heavy gauge pressed steel covers to approximately two-thirds of the door height as standard. Counterweight covers are finished as per the frame specification and are custom-made and designed to suit the site dimensions.

### PERSONAL ACCESS (PA) DOORS (OPTIONAL)

Where there is no other entrance into the building, PA Exit Doors (opening outwards) can be built into the Glide-Up Door. 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 Glide-Up Doors are fitted with pad bolts on the inside as standard. Padlocks not included. 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.

### HOLD OPEN LATCH (OPTIONAL)

Manually operated counterweight doors can be fitted with a spring loaded Hold Open Latch to ensure they stay open in windy areas.

### OPERATION

Glide-Up Doors consist of a single panel, which swings outwards and upwards. Using a counterweight system, the door (in the open position) rests horizontally under the lintel, projecting internally and externally of the building. See also Method of Operation.



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### HAND OPERATION

The Glide-Up Door can be manually operated up to 600kg total door weight. It is recommended, however, that doors are motorised, especially where they are; high, large, subject to high wind loads, or, are in frequent use.

### MOTORISATION

Motorisation is via a geared electric motor and incorporates a standard reversing starter push-button station (control box). The standard push-button station offers 'Up', 'Down' and 'Stop' functions.

Operator selection is dependent on availability of power, door usage and door access requirements. Motorisation is available in three-phase (415v) as standard, single-phase (240v) or 24DC/240v. Residential applications are supplied as standard 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.

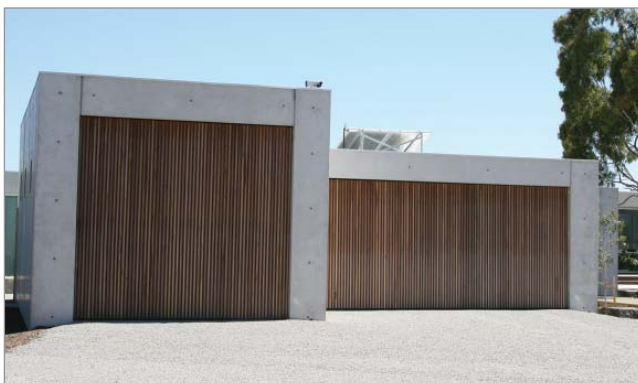
Optional extras, such as high cycle motorisation, battery back-up and access control accessories are available upon specification. NOTE: For safety, Photoelectric Beams (PE Beams) are highly recommended on all counterweight doors. Where doors are automated by a radio control, PE Beams are a requirement. A Through-Beam must be used on all government installations (e.g. ambulance, police, CFA stations).

For further information see Door Operators & Accessories.

### OPTIONS

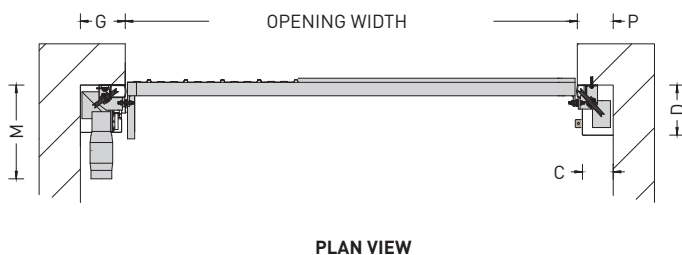
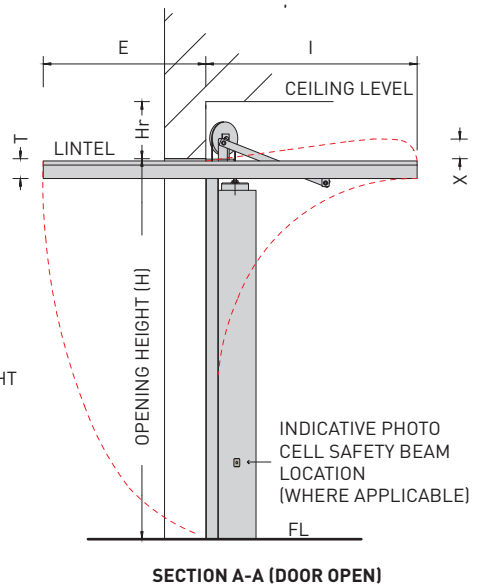
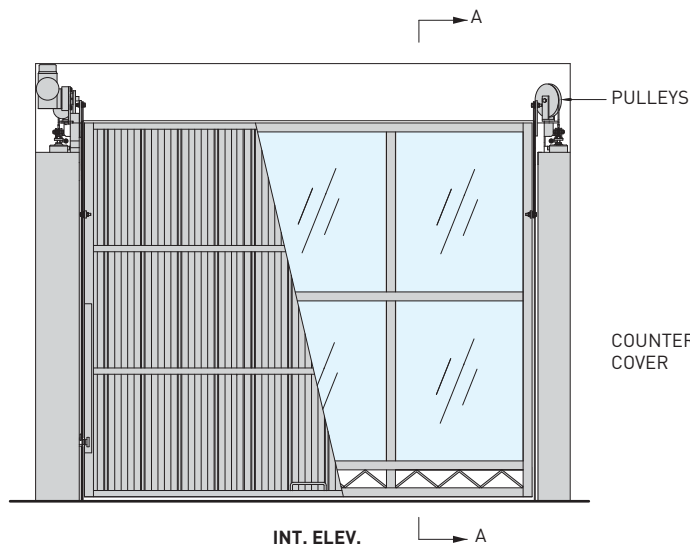
Flush mount installation

**(NOTE:** This requires a specifically designed opening, refer to downloadable Technical Datasheet). Alternatively consult Technical Sales regarding the NEW Façade Door.



# Glide-Up Door

## Technical Specs: Counterweight Doors



CLEARANCE DETAILS																									
HEIGHT UP TO	TYPE	Width up to 3m						5m						7m						10m					
		G	P	Hr	T	D	X	G	P	Hr	T	D	X	G	P	Hr	T	D	X	G	P	Hr	T	D	X
2.5m	S	P	150	150	120	250	140	P	150	200	150	280	140	P	200	200	200	280	140	P	250	300	250	280	140
	GL	P	200	200	120	280	140	P	200	200	150	280	140	P	250	250	200	280	140	P	300	300	280	350	140
	EL	260*	200	300		280	140	260*	260	300		280	140	350	350	300		280	140	350	350	300		280	140
3m	S	P	150	150	120	250	150	P	150	200	150	280	150	P	200	200	200	280	150	P	250	300	300	280	150
	GL	P	200	200	150	280	150	P	200	200	200	280	150	P	250	250	200	280	150	P	300	300	300	350	150
	EL	260*	200	300		280	150	260*	260	300		280	150	350	350	300		280	150	350	350	300		280	150

**KEY**

C = 'G' or 'P' - 20mm (in most cases). [Counterweight Cover Width]

E = (Opening Height / 2) - 135mm. [External Projection]

I = (Opening Height / 2) + 13mm. [Internal Projection]

- 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.