

Fully Internal Glide-Up Door

Counterweight Doors



Fully Internal Glide-Up Doors are ideal in cases where external projection (past the exterior of a building) of the door is prohibited, and where full opening height is required. They are commonly used for residential and commercial applications such as garages, car park entries, workshops, showrooms, etc., and can be clad in a wide range of cladding materials.

FEATURES

- Counterweight balance
- Wide range of cladding options
- No external projection
- Full opening clearance (sufficient sideroom and headroom required)
- Long lasting

DOOR DIMENSIONS

- Maximum Height: 4000mm
- Maximum Width: 10000mm

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

RECOMMENDED SPECIFICATIONS

Fully Internal Glide-Up Door, consisting of a single steel framed panel, selected cladding, and inclusive of all hardware, as manufactured by Airport Doors. Balanced by means of counterweights, the door operates fully inside of the opening.

NOTE: Fully Internal 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 operates behind the opening as standard, however it can be fitted within the opening (i.e. flush mount) in which case all sides must be plumb and true.

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 Fully Internal 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

Fully Internal Glide-Up Doors either overlap the opening (as standard) or fit within the opening. In either case, a working clearance of 25mm is required at the bottom of the door, and where the door is fitted within the opening, additional working clearance of 15mm on each side and at the top of the door is required for smooth operation. 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 Fully Internal 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 Fully Internal 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.

OPERATION

The Fully Internal Glide-Up Door is a single panel door which operates via a counterweight system. As the door opens, the top of the panel travels along horizontal tracks, and the bottom travels up vertical tracks until the door rests horizontally overhead (remaining internal at all times). To achieve maximum opening height the door operates behind the opening as standard. See also Method of Operation.

HAND OPERATION

The Fully Internal Glide-Up Door can be manually operated up to 300kg 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).

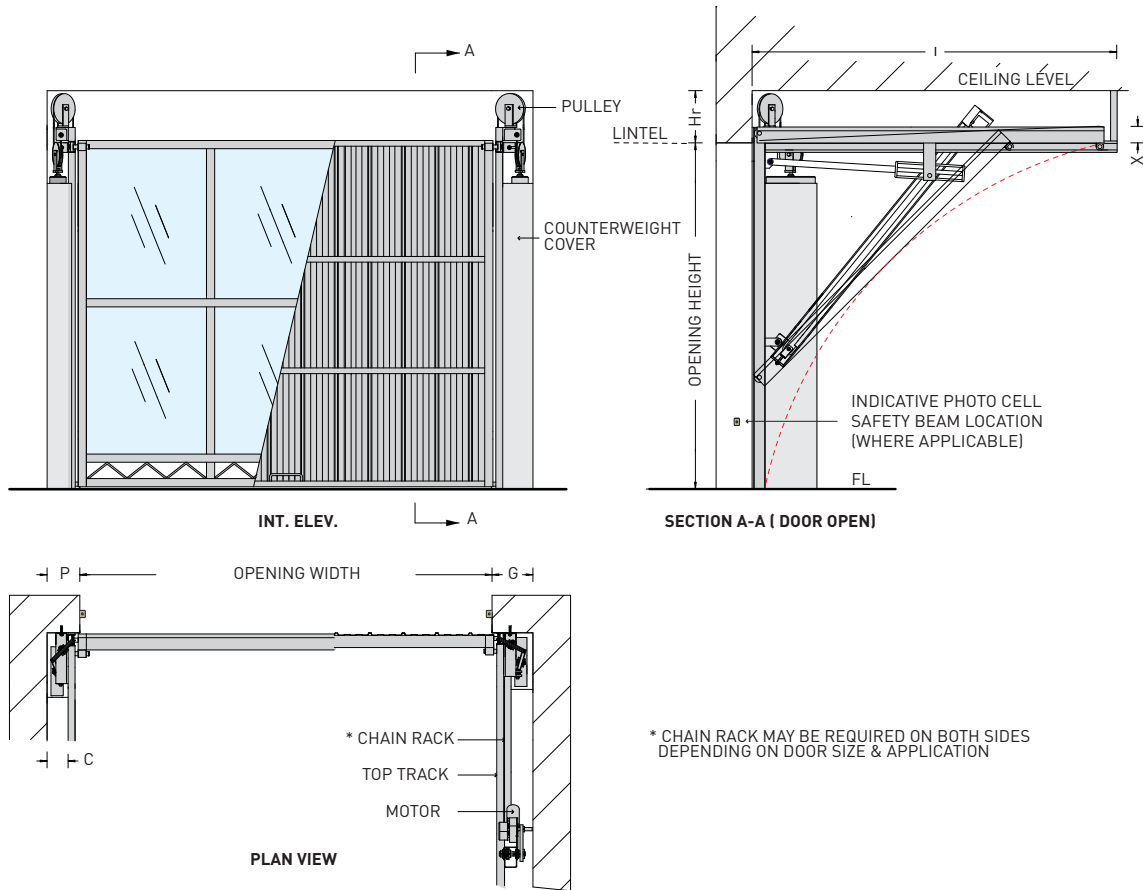
For further information see Door Operators & Accessories

ALTERNATIVE

- For a flush mount door consult Technical Sales regarding the Fully Internal Glide-Up Door Flush Mount version or the NEW Façade Door.

Fully Internal Glide-Up Door

Technical Specs: Counterweight Doors



* CHAIN RACK MAY BE REQUIRED ON BOTH SIDES DEPENDING ON DOOR SIZE & APPLICATION

CLEARANCE DETAILS																					
HEIGHT UP TO	TYPE	WIDTH UP To 3m					5m					7m					10m				
		G	P	Hr	D	X	G	P	Hr	D	X	G	P	Hr	D	X	G	P	Hr	D	X
2.5m	S	P	200	270	300	150	P	200	350	300	150	P	250	400	350	150	P	300	550	350	150
	GL	P	200	320	300	150	P	250	350	350	150	P	300	450	350	150	P	300	580	350	150
	EL	250	200	320	300	150	250	250	350	350	150	300	300	450	350	150	300	300	580	400	150
4m	S	P	200	270	300	150	P	200	350	300	150	P	250	400	350	150	P	300	550	350	150
	GL	P	200	320	300	150	P	250	350	350	150	P	300	450	350	150	P	400	580	400	150
	EL	250	200	320	300	150	250	250	350	350	150	300	300	450	350	150	400	400	580	400	150

KEY

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

I = Opening Height +100mm (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.

- For the flush mount version download Fully Internal Glide-Up Door Flush Mount Technical Data Sheet or see NEW Facade Door.