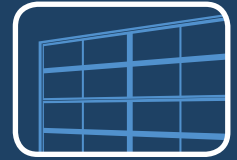


COUNTERWEIGHT DOORS



From car park entries to aircraft hangars... if you want to make a bold statement, Mirage counterweight doors are worth a look. These doors can span up to 30 metres and be used in a wide range of applications.

Suitable for very high security applications like correctional centres, courthouses and emergency services buildings through to customised commercial buildings like aircraft hangars, schools, sporting stadiums and clubs and underground car parks. Counterweight doors are also used for highly aesthetic applications like shopping centres, upmarket residential homes and entertainment venues.

The main benefits of Mirage's counterweight doors are their minimal maintenance requirements, low noise emission, and their ability to be designed in a variety of cladding and glazing types. They also provide high reliability with very little ongoing costs.

Minimal Noise Emissions

Mirage's counterweight doors are extremely quiet during operation, ensuring they are highly appropriate for all applications, especially car park entry systems.

High Cycle Usage

Mirage's doors and associated electric motor drives can easily be adapted for high cycle applications.

Structural Integrity of the Doors

Mirage's counterweight doors are designed by in-house engineers to ensure compliance with wind loads and structural adequacy.



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Cladding Versatility

Mirage are able to incorporate a wide variety of cladding and glazing types into their doors e.g. glass, aluminium, steel, timber, mesh, insulation panels, bar grilles – without affecting the operational performance or security of the door. The ability of Mirage’s counterweight doors to blend with the adjacent building appearance is exceptional.

Ventilation

Mirage’s doors are easily able to comply with ventilation requirements without compromising security.

Operation

Doors can be operated manually or can be motorised via push button, key switch or remote control activation.

Comparisons with Other Products

Whilst roller shutters and sectional overhead doors provide up-front cost effectiveness, they have a shorter life cycle than counterweight doors, which provide the most effective cost solution for periods in excess of five years.

Frame

The frames are constructed from steel hollow section and designed in accordance with AS1170.2-2002 and AS4200-1998, to withstand wind loading as required in the closed position and provide minimum deflection in the open position.



Finish

The standard finish is a prime paint to the frames and guide channels. Other options include enamel paint, powdercoating and polyurethane paint. Hot dipped galvanising is recommended for corrosive environments.

Locking

For manually operated doors, sliding pad bolts are fitted to the bottom of each side (padlocks supplied by others).

Optional Extras

- Access/personnel doors within the garage door
- Remote control activation c/-photo electric beam protection
- Integration/interfacing with parking system controls

Series 5000 - ‘Vertical Lift’ Single or Two Leaf Design - Steel Construction

Application

Suitable where sufficient headroom exists to vertically raise the doors behind the building wall, overcoming the need to project the door inwards or outwards.

Specification

Series 5000 vertical lift counterweight door is of a single or twin leaf design which lifts and operates in a vertical position.

Operation

Power operated by a single or 3 phase motor, depending on requirements.



Technical Details

See below for clearance dimensions.

SERIES 5000 ‘VERTICAL LIFT’ DOOR	DOOR WIDTH up to 3000mm	DOOR WIDTH 3000mm to 7000mm	DOOR WIDTH 7000mm to 10000mm
<i>Nib Width</i>	160mm to 200mm	200mm to 250mm	250mm to 400mm
<i>Nib Depth</i>	190mm to 220mm	220mm to 250mm	250mm to 400mm
<i>Headroom – Manual Door</i>	Door height + 200mm	Door height + 200mm	Door height + 200mm
<i>Headroom – Motorised Door</i>	Door height + 400mm	Door height + 400mm	Door height + 400mm

Series 3000 - 'Bi-Fold' Twin Leaf Door - Steel Construction

Application

Suitable for industrial and commercial use. These doors may be used to span large openings of up to 30 metres wide. Design wind loads range from a standard range of 0.5kPa to cyclonic conditions, as required.

Specification

Series 3000 fold-up two leaf counterweight door is of a twin leaf design, horizontally hinged to lift vertically into a folded position.



Operation

Smaller doors may be operated by hand, with a pull down rod supplied when doors are out of reach. Alternatively, it may be power operated by a 3 phase motor incorporating a clutched drive system.



Technical Details

Refer to table for clearance dimensions.

SERIES 3000 'FOLD-UP' DOOR	DOOR WIDTH up to 3000mm	DOOR WIDTH 3000mm to 7000mm	DOOR WIDTH 7000mm to 10000mm
Nib Width	160mm to 200mm	200mm to 250mm	250mm to 400mm
Nib Depth	190mm to 220mm	220mm to 250mm	250mm to 400mm
Forward Projection (approx)	25% of door height	25% of door height	25% of door height
Internal Projection	25% of door height	25% of door height	25% of door height
Headroom - Manual Door	200mm	300mm	375mm
Headroom - Motorised Door	400mm	400mm	Minimum 450mm
Folded Door Thickness	280mm	330mm	Minimum 400mm

N.B For series 3000 doors in excess of 10 metres wide, please consult your nearest Mirage Branch.

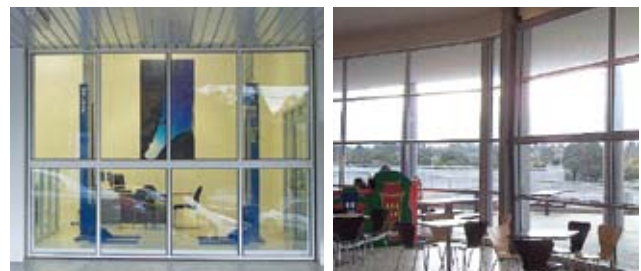
Series 2000 - 'Hingeaway' Two Leaf (Unequal Panels) - Steel Construction

Application

Industrial and commercial applications where minimal internal projection and minimal headroom are required.

Specification

Series 2000 hingeaway two leaf (unequal panels) counterweight door.



Operation

Smaller doors may be operated by hand, with a pull down rod supplied when doors are out of reach. Alternatively, power operated by a single or 3 phase motor, depending on requirements.



Technical Details

Refer to table for clearance dimensions.

SERIES 2000 'HINGEAWAY' DOOR	DOOR WIDTH up to 3000mm	DOOR WIDTH 3000mm to 7000mm
Nib Width	160mm to 200mm	200mm to 250mm
Nib Depth	190mm to 220mm	220mm to 250mm
Forward Projection (approx)	35-50% of door height	35-50% of door height
Internal Projection	25-35% of door height	25-35% of door height
Headroom - Manual Door	200mm	300mm
Headroom - Motorised Door	400mm	400mm
Open Door Thickness	150mm	250mm

Series 1500 - 'Single Leaf' Fully Recessed Counterweight Door

Application

Ideal where external obstructions require doors to retract fully within the building, e.g. street frontages, loading docks, car park entries.

Specification

Series 1500 single leaf (no projection) counterweight door.

Operation

Smaller doors may be operated by hand, with a pull down rod supplied when doors are out of reach. Alternatively, it may be power operated by a 3 phase motor incorporating a differential drive system.



SERIES 1500 SINGLE LEAF FULLY RECESSED DOOR	DOOR WIDTH up to 3000mm	DOOR WIDTH 3000mm to 7000mm
<i>Nib Width - Counterweight Both Sides</i>	160mm to 190mm	190mm to 250mm
<i>Nib Width - Counterweight One Side</i>	260mm to 310mm	310mm to 350mm
<i>Nib Width - Non Counterweight Side</i>	125mm	125mm
<i>Nib Depth - Counterweight Both Sides</i>	180mm to 210mm	210mm to 250mm
<i>Nib Depth - Counterweight One Side</i>	350mm to 400mm	400mm to 450mm
<i>Nib Depth - Non Counterweight Side</i>	100mm	100mm
<i>Headroom - Manual Door (incl. door thickness)</i>	300mm	300mm
<i>Headroom - Motorised Door (incl. door thickness)</i>	400mm	400mm



Technical Details

Refer to table for clearance dimensions.

Series 1000 - 'Single Leaf' Part Projection - Steel Construction

Application

Ideal where internal obstructions prevent doors retracting fully within the building.

Specification

Series 1000 single leaf part projection counterweight door.

Operation

Smaller doors may be operated by hand, with a pull down rod supplied when doors are out of reach. Alternatively, it may be power operated by a 3 phase motor incorporating a clutched drive system.



SERIES 1000 SINGLE LEAF PART PROJECTION	DOOR WIDTH up to 3000mm	DOOR WIDTH 3000mm to 7000mm
<i>Nib Width</i>	160mm to 220mm	220mm to 250mm
<i>Nib Depth</i>	190mm to 220mm	220mm to 250mm
<i>Forward Projection (approx)</i>	40% of door height	40% of door height
<i>Internal Projection (approx)</i>	60% of door height	60% of door height
<i>Headroom - Manual Door</i>	200mm	300mm
<i>Headroom - Motorised Door</i>	400mm	400mm



Technical Details

Refer to table for clearance dimensions.

Mirage has a continuous program of product development and reserves the right to change specifications at any time without notice.

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