

COUNTERWEIGHT DOORS



APPLICATION

The Mirage counterweight doors have been installed on a diverse range of projects and applications throughout Australia. These projects range from ultra high security applications (e.g. correctional centres, courthouses, emergency services buildings), through to customised commercial buildings (e.g. aircraft hangars, schools, sporting stadiums and clubs), and also through to highly aesthetic applications (e.g. shopping centres, upmarket residential, homes and units, restaurants and entertainment venues).

The main benefits of counterweight doors are their minimal maintenance requirements, low noise emissions, and their ability to be designed in a variety of cladding and glazing types. Compared to roller shutters and sectional overhead doors, counterweight doors provide high reliability with very little ongoing costs. Their specific features and benefits are outlined below:

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

Our counterweight doors and associated electric motor and remote control access systems can easily be adapted for high cycle applications.

Structural Integrity of the Counterweight Doors

Mirage counterweight doors are designed by in-house engineers to ensure compliance with wind loads and structural adequacy. Some of our counterweight doors have been for openings in excess of 25 metres wide.

Cladding Versatility

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

Ventilation

Our counterweight doors are easily able to comply with ventilation requirements without compromising security.

Operation

Counterweight doors can be operated manually by hand, or can be motorised via push button, key switch or remote control activation.

Comparisons with Other Products

Whilst roller shutters and sectional doors provide up-front cost effectiveness, they have a shorter life cycle than counterweight doors. For products operated in excess of 50 operations per day, a counterweight door will have a far superior product life span.

Please feel free to discuss your counterweight door requirements with the sales consultant in your nearest Mirage Doors office, or one of our distributors.

Call 1800 465 599 or visit www.miragedoors.com.au

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TIPS FOR SPECIFIERS

1. Counterweight doors must be installed to structural supports.
 - Suitable materials include concrete, core –filled masonry, RHS steel or PFC channels;
 - Unsuitable materials are metal stud wall, office partition walls or hollow masonry.
2. All counterweight door tracks and components are fitted behind the walls, not between the walls or in front of the walls.
3. All counterweight doors require adequate headroom and sideroom – please carefully read the clearance charts on each brochure when detailing the openings on your plans.
4. As Mirage Series 1000, 1500, 2000 and 3000 counterweight door leafs swing between the jambs, openings must be plumb and true.
5. When including glass in your specifications, please note that the Building Code of Australia prescribes limitations to glass types. Consult our office for size limits on this and other types of glass.
6. Standard features:
 - Locking (for manually operated doors): via internal padbolts;
 - Locking (motorised doors): via motorisation;
 - Manual locks are not recommended on motorised products;
 - Finish: prime paint (other finishes must be nominated in the specification);
 - Glazing: 6.38mm laminate glass or 6mm toughened glass (please note glazed doors are recommended to have a 400mm high metal “kick plate”);
 - Cladding: Colorbond® or Zinalume® steel sheeting as selected, in a vertical pattern. The cladding type needs to be nominated;
 - Counterweight casings to conceal the weight are formed from steel sheeting.
7. When electric operated, we recommend 3 phase 415v motorisation. The power supply to be provided by the site electrician is 3 phase 415v with neutral, terminated to an isolation switch. Please specify if the site electrician or Mirage is responsible for electrical connection/commission. Single phase and variable speed drive also an option.
8. Mirage counterweight doors are suitable for high cycle applications. Please ensure any specification nominates the expected level of usage.
9. Mirage counterweight doors can include personnel access doors. If required, please specify the swing door leaf size and locking requirements.

10. Mirage counterweight doors can incorporate a variety of cladding, glazing and finishes. These will need to be carefully specified to ensure availability.

11. Please nominate windload specifications.

This will help determine appropriate counterweight door selection.

