



Bi-Fold Gates

SPECIFICATION SUMMARY

The Bi-Fold Gate was introduced to the marketplace primarily as a solution for areas where security combined with good visibility, passage of daylight illumination and natural airflow are important considerations.

Offering more than 60% free airflow in the standard design, the gate system is manufactured from the best quality materials using sound engineering principles, that together create a product of superior design with intrinsic strength and structural integrity.

Individual panels are formed from a four-sided heavy duty perimeter framework capable of receiving various infills, cladding panels or bespoke facings benefitting designers and architects with the option of a tailored solution.

Pivoting on floor mounted bearings and lateral movement controlled within a top track, the Bi-Fold requires only minimal head and side room making it beneficial where the structural space envelope is limited.

Applications Include: -

Car park entrances, service yards, loading and storage bays. In areas with the potential for build up of harmful gases, the free-open area of the standard design greatly assists when used with ventilation or extraction systems to generate mechanical airflow.

Performance Characteristics: -

High level of security.
Natural ventilation.
Free open area helps disperse gases and aids airflow.

Key Attributes: -

Providing a high level of security with integral strength and durability.
Minimal headroom requirements.
Compact sideroom requirements.
Individually manufactured to suit specific opening sizes but the standard design can also be modified to reflect the aesthetic of the surrounding finishes.
A wide range of electrical control and safety options.

Operation

The gates are electrically operated by two 230-volt nominal single phase motors mounted at high level on each gate.

A single specialist gate operating control panel is provided to ensure both sides operate simultaneously complete with open/close/stop push button to be mounted adjacent to the opening.

A wide range of control options to suit the site specific requirements can be facilitated by the standard control panel including radio control, proximity readers, photocells, loops and timers etc.

A manual disconnection device is provided to allow emergency manual operation in the event of power failure.

Gate Frame

The standard arrangement comprises a pair of door leaves each with two panels. The door leaves fold back to the jambs and bunch at 90°, perpendicular, to the opening.

With bespoke construction, other arrangements can be fabricated including fixed side and head panels – please contact the Sales Department to discuss.

Gate Leaves

The gate leaves are available in various designs but the standard arrangement comprises a 60 x 40mm RHS perimeter frame with 25mm diameter tubes or 25mm SHS uprights at 125mm centres.

Taller gates have a mid rail incorporated for strengthening purposes. A rear mounted wire mesh can be incorporated to prevent access through the steel uprights.

Top Track

A compact 54 x 42mm top guide track keeps headroom requirements to a minimum.

Bottom Track

The Bi-Fold Gate is designed to be operated without a bottom track allowing a continuous floor surface.

Heavy duty floor mounted bearings support the weight of each half door.

Finish

The standard gate finish is galvanised. Polyester powder coating in a wide range of RAL colours is available as an optional extra.

Maximum Size

6000mm clear with x 6000mm clear height

Larger openings can be accommodated by incorporating matching fixed over panels or side panels or even by upgrading to the heavier duty Multifold Gate.

Weight

Varies dependant on gate leaf design but typically 35 kgs per m².

Options

Polyester powder coating in a range of standard colours.

Cladding options to reflect surrounding structure.

Wicket door complete with hardware.

Wide range of control options including:-

- Digi-pad access
- Remote control fobs
- Photocells
- Wireless safety edges
- Light curtains
- Timer delay closing
- Radar monitoring
- Pressure mats
- Loop detectors

To specify this product please state:

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