



**G.JAMES**  
Windows & Doors

## Bi-fold Door 477 Series



### Experience the true meaning of open living when you select a G.James 477 Series Bi-fold Door.

The trademark 'fold-and-stack' function of bi-fold doors place them at the top of the shopping list for alfresco entertainment areas or any aspect where you want to optimise your view and opening space.

G.James' bi-fold doors combine quality hardware componentry with the uncompromising strength of heavy duty aluminium profiles to ensure you enjoy consistent, long-term performance along with the ultimate sensation of bringing the outdoors, indoors<sup>1</sup>.

<sup>1</sup> Bi-fold Doors are suitable for sheltered, non-exposed positions only.

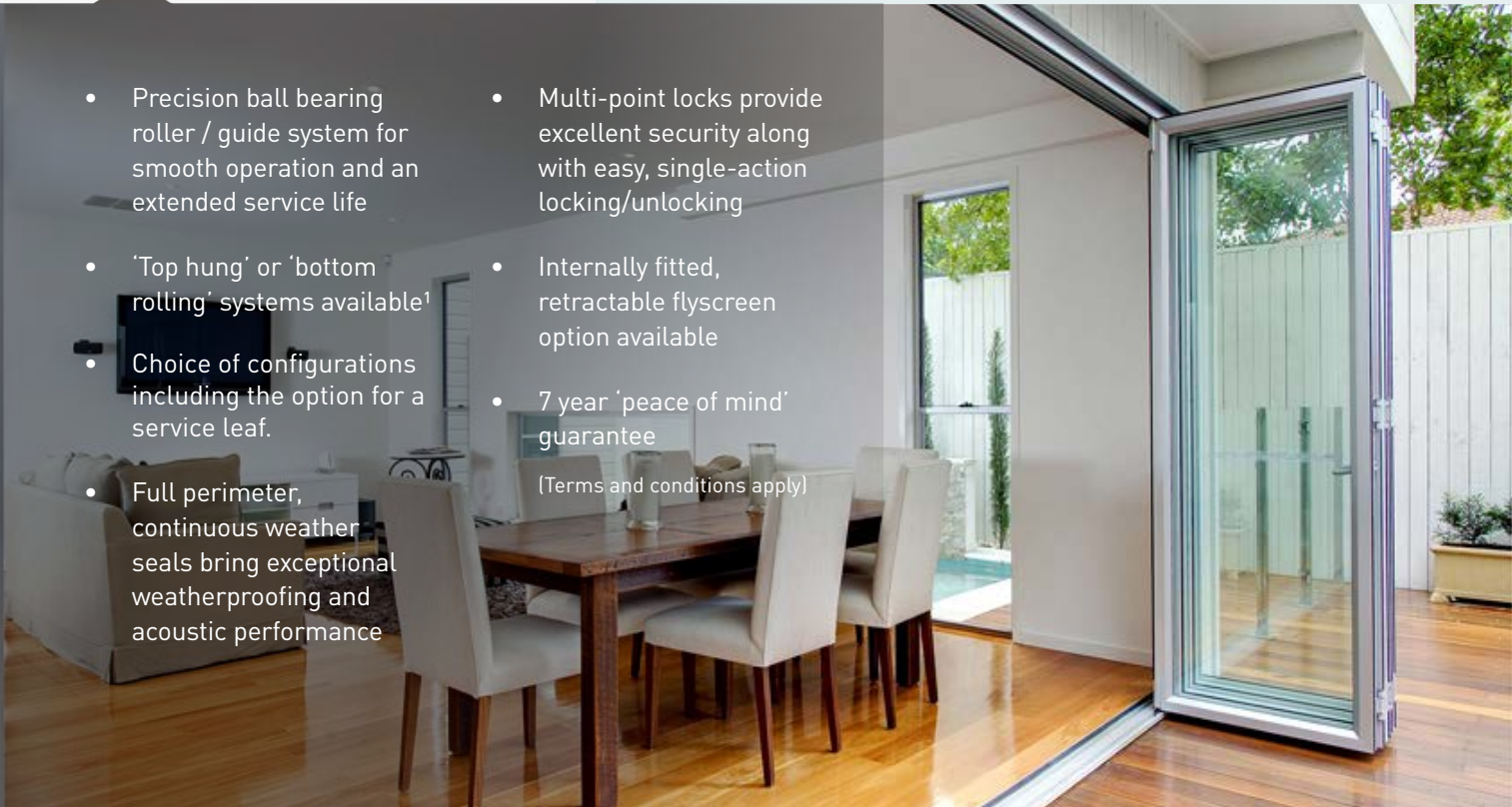
*Left image: Cut-through of Bi-fold door sill  
(guide only, subject to change without notice)*





## Features

- Precision ball bearing roller / guide system for smooth operation and an extended service life
- Multi-point locks provide excellent security along with easy, single-action locking/unlocking
- 'Top hung' or 'bottom rolling' systems available<sup>1</sup>
- Internally fitted, retractable flyscreen option available
- Choice of configurations including the option for a service leaf.
- 7 year 'peace of mind' guarantee  
(Terms and conditions apply)
- Full perimeter, continuous weather seals bring exceptional weatherproofing and acoustic performance



## Technical Data

<sup>1</sup> Structural beam by builder required for all top-hung systems

**Size Limitations<sup>1</sup>**

Refer the Configurations section of this brochure for size limitations

**Other Limitations**

This product is suitable for sheltered, non-exposed positions only

**Max. Glass Thickness**

- Single glazed – 10.38mm
- Double glazed (IGU) – 32mm

**Max. Water Performance**

- Standard sill - 150 Pa
- Sub-sill configuration - 600 Pa

**Perimeter Frame Width**

100mm

**Screening**

Retractable flyscreen systems only

**WERS Data<sup>2</sup>**

- U-Value range: 3.30 – 6.10
- SHGC range: 0.29 – 0.65

**Acoustics<sup>2</sup>**

Up to Rw 31

**Bushfire Attack Level**

G.James adopts the 'Deemed to Satisfy' approach for this product

**Compatible Construction Types:**

Brick veneer, clad wall, block wall and cavity brick

<sup>1</sup> Maximum sizes are a guide only and subject to the wind rating or SLS/ULS requirements of the site.

<sup>2</sup> Consult your G.James representative to determine the most suitable product configuration for your requirements.



## Powdercoat Colours

\* COLORBOND® steel colour match



Black (Satin)



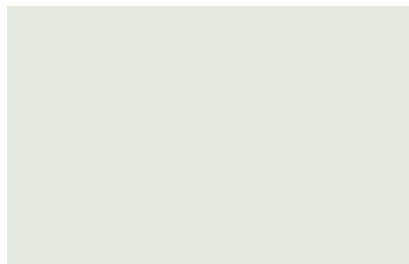
Monument (Matt) \*



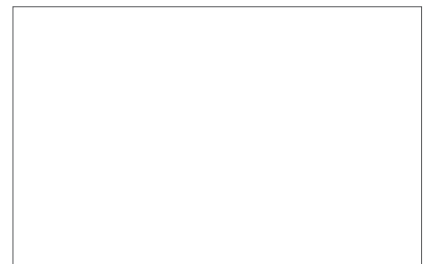
Woodland Grey (Satin) \*



Ultra Silver (Gloss)



Surfmist (Matt) \*



Pearl White (Gloss)



Dune (Satin) \*



Paperbark (Satin) \*

**IMPORTANT:** The surface finishes shown represent the standard range of colours offered by G.James.

It should be noted that some finishes may not be stocked at your supplying location which may affect price and lead time.

**Contact your G.James representative for further information.**

## Anodised Finishes



Clear



Residential Bronze

Note: All Anodised Finishes are price on application. All residential anodised finishes are supplied at AA15 (film thickness) with AA20 & AA25 available upon request.

Polished Silver (internal products only) and other Bronze finishes are available.

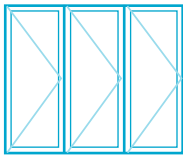
**Contact your G.James representative for further information.**

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Configurations

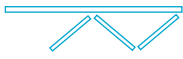
**3 Leaf**



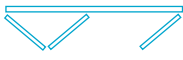
**3L**



**3R**



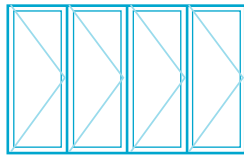
**2L1R**



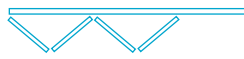
**1L2R**



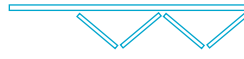
**4 Leaf**



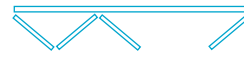
**4L**



**4R**



**3L1R**



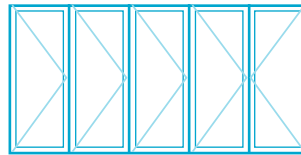
**1L3R**



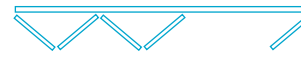
**2L2R**



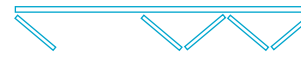
**5 Leaf**



**4L1R**



**1L4R**



**3L2R**



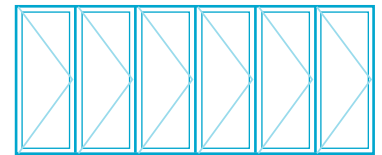
**2L3R**



**5L\* or 5R\* (not shown)**



**6 Leaf**



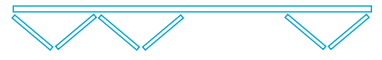
**6L**



**6R**



**4L2R**



**2L4R**



**3L3R**



\* Available with the 477-220 Series **Top Hung** Bi-fold Door only.

Product	Max. Height (mm)	Min. Width per Leaf (mm)	Max. Width per Leaf (mm)	Other
<b>477-220 Series 'Top Hung' Bi-fold Door</b> (Note: Structural beam (by builder) required for this product. See also first note below).	3000	700	<ul style="list-style-type: none"> <li>&gt; All 3L, 3R, 5L &amp; 5R configs – 950mm</li> <li>&gt; All other configs – 1000mm</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Max. panel weight – 40 kg.</li> </ul>
<b>477-520 Series 'Bottom Rolling' Bi-fold Door</b>	2550 (Max. height is dependent on leaf width)	450	<ul style="list-style-type: none"> <li>&gt; All 3L &amp; 3R configs – 900mm</li> <li>&gt; All other configs – 1000mm</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Max. panel weight – 80 kg.</li> <li>&gt; 5L &amp; 5R configs are not available in the 477-520 Series.</li> </ul>

**Product Specific Notes:**

- A structural overhead beam is required for 477-220 Series Top Hung Bi-fold Doors. All beams are to be supplied by the builder and engineered with a maximum 3mm sag when subjected to live and dead loads.
- Bi-fold Doors are suitable for sheltered, non-exposed positions only.
- Consult your G.James representative regarding configurations greater than 5 leaves to determine the most suitable configuration for your situation.
- Internal flyscreen option only, see you G.James representative for further informations.



## Operating Instructions

- Bifold doors are a brilliant way to open up a living space.
- Having an access panel to facilitate easy access through the bifold doorset, with ready access from both inside and out is highly desirable.
- Having all of the panels stack to one end is also highly desirable to minimise space intrusion.
- And you can have all of these things in the one door opening. 3 panels one way; or 5 panels, or even 7 panels (although GJames does not offer this option) Brilliant again.

To avoid disappointment, there is something about 3, 5, or 7 panels one way that you need to know.

There is a risk of your door sill or the floor being damaged if someone operates the panels in the wrong sequence. The evidence of this is gouged into many floors in Australia and around the world. Bifold doors from all manufacturers and in all materials suffer the same fate if operated inadvertently.

1. When opening the doorset, always ensure that the free swinging access panel (the one with the regular hinged door handle on it) is latched to the adjacent pair of panels **BEFORE** opening the folding pairs of doors
2. When closing the doorset, always leave the free swinging access panel attached to the adjacent pair until they are locked in the closed position

**The cause of the problem is basic physics. That free swinging panel is hanging on the end of at least 2 other door panels. Those two (or more) panels are very rigid in the plane of the glass, but, because they are basically flat and thin, they are subject to distortion if a twisting force is applied to one end of the panel.**

**That free swinging access panel is attached to the next panel by hinges and it always applies a twisting load (or torque) through the hinges that it hangs from; the direction of that twisting load changes as the panel swings through the opening/closing arc.**

**When the bifold panels are closed, this is no problem because the forces involved are resisted by the top (head) and bottom (sill) of the door frame. When the bifold panels are open, however, they are easily distorted by that twisting load, and the result of that distortion is that the end of that swinging panel drops downward towards your lovely tiled floor.**

