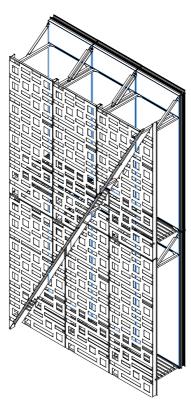


G.JAMES

SHADING SYSTEMS -ARCHITECTURAL BRIEF



An ideal solution to any external feature will protect against the weather while attached to the outside of the facade, mitigating penetrations through the facade. G.James use light weight, corrosion resistant panelized systems that are pre assembled in the factory. They are designed to easily attach to framing on site prior to facade panel install. Consideration is given to safe handling, transportation and quick fixing methods that include removal for replacement or reglazing purposes of the panel it attaches to.

There are 3 types of solar control systems:

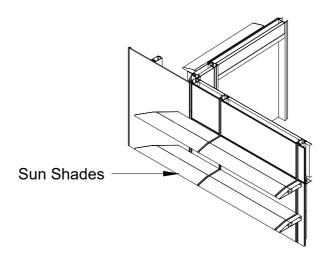
- 1) Horizontal Projecting Sun Shades provide the best shading for high sun (eg on the North elevation of a building).
- 2) Vertical Projecting Sun Blades provide best shading for low sun (eg on the East or West elevation of a building).
- 3) Vertical Screens oriented parallel to the building facade are used for intensive shading or as an architectural feature.



Design Considerations

Horizontal Projecting Sun Shades

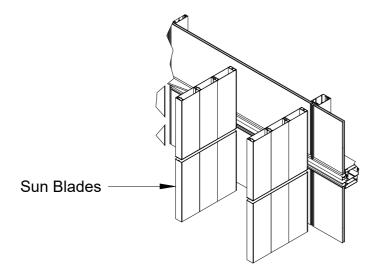
These Run Horizontally Across the Facade of a Building, as Shown Below.



See table for limitations.

Vertical Projecting Sun Blades

These Run Vertically Up a Building Facade at Specified Intervals, as per Below



See table for limitations.



Vertical Parallel Screens

Typically constructed with a perforated aluminium screen, this type of shading system can provide significant privacy or shading from sunlight in all directions. Used intelligently, they take advantage of daylight to provide heavy visual massing to the building exterior, appearing almost solid, yet can have surprisingly minimal disruption to views from the building interior. Innovative use of these screens can create striking architectural features to buildings.

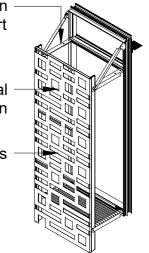
Screen support

Vertical screen

Typically these vertical parallel screens incorporate a maintenance enforations walkway, generally 600mm wide between the façade and screen.

This dictates the critical consideration for the design of its minimalist supporting structure.

The designs of these screens are generally bespoke to suit individual projects.

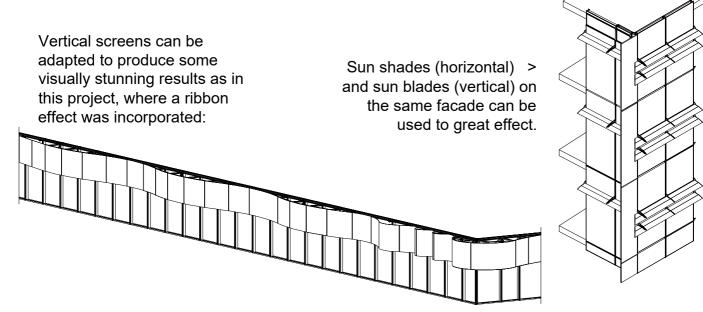


Shading Systems' Indicative Projection Limitations						
	Wind lo	Wind loading regions of Australia				
	A. non-cyclonic B. weakened-cyclonic C. & D. cyclonic					
	(eg. Sydney/Melbourne)	(eg. Brisbane)	(eg. Townsville/Cairns)			
Horizontal Projecting Sunshades						
Free cantilevering	1200 max.	900 max.	600 max.			
Diagonally braced/trussed	1800 max. 1500 max.		900 max.			
Vertical Projecting Sunblades	200	150				
Vertical fixing plates into std sized mullions	600 max.	450 max.	300 max.			
Vertical fixing plates into wider mullions	750 max.	600. max	400 max.			
Horizontal profiled fixing brackets into transoms	1200 max.	900 max.	600 max.			
Vertical Parallel Screens	* Typically these vertical screens require a 600 wide maintenance walkway					
	and the subsequent stru	ictural as well as aesthetic	considerations require			
		bespoke design.				

Note: These are indicative values for general guidance. Project specific wind loads and geometry may vary from these values.

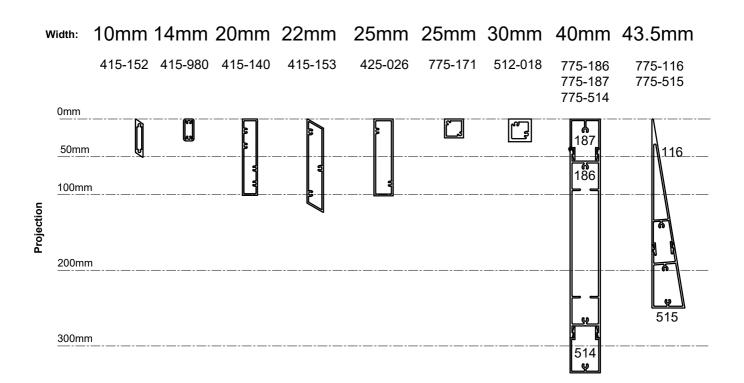
Please contact G.James Commercial Contracting division to take benefit of G.James extensive experience and custom design expertise for a successful outcome with your building's specific

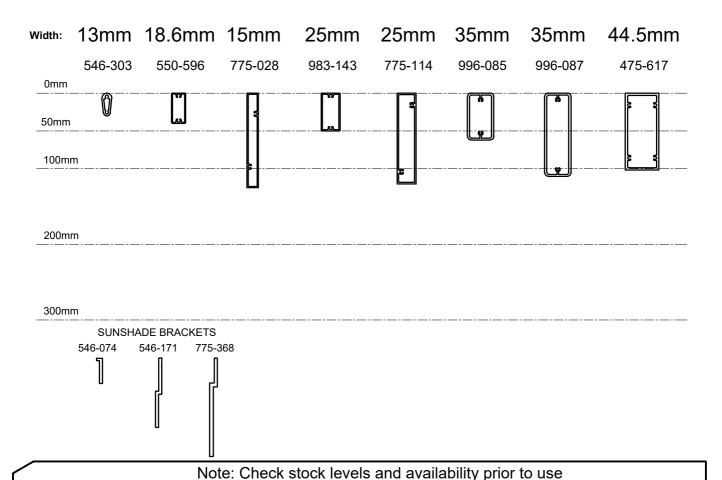
shading system.





UP to 50mm WIDE SOLUTIONS







UP to 50mm WIDE SOLUTIONS

١	Width:	45mm	50mm	50mm	50mm	50mm	50mm	50mm
	0	775-195 775-196 775-197 775-198 775-199	775-263 775-769 775-002	775-122 775-258	775-121 775-122	650-608	775-123 775-124	775-182 775-183 775-184
	<u>0mm</u>		W	122			123	183
	200mm	195 Lu. 197	263 ,769,	258	121			184
Projection	300mm 400mm	5 4		<u> </u>	3 5		124	<u> </u>
	500mm	LSLAREJ						
	600mm	pq						
	700mm	196 197						
	800mm	198						

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51 to 60mm WIDE SOLUTIONS

	Width:	52mm 775-047 775-174	55mm 775-369 775-370 775-371 775-373	56.5mm 775-775	56.5mm 775-244	60mm 775-273 775-274
	0mm	047	773-373 			273
	100mm		369	% <u></u>		
	200mm	174	370			
Projection	300mm		(37 ²)			\$ 1
	400mm		373			
	500mm					
	600mm					
	700mm					



61 to 70mm WIDE SOLUTIONS

\	Width:	65mm 775-213 775-214 775-215 775-216	65mm 775-213 775-214 775-215	65mm 775-213 775-214 775-512	65mm 775-510	66mm 775-798 775-799 265-088
	<u>0mm</u>	215	215	512		w w
	100mm					
	200mm	214	214	214		
Ē	300mm					
Projection	400mm	213	214 	214 		
	500mm	216				
	600mm		213 215	213		
	700mm					



61 to 70mm WIDE SOLUTIONS

	Width:	69mm 775-261	70mm 775-190	70mm 546-065 415-027	70mm 775-109 775-110	100mm 775-010 775-009
	0mm 100mm 200mm	w	\$'2	065	109	010 009
Projection	300mm 400mm			027	<u> </u>	
	500mm		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
	600mm					
	700mm					
	800mm					
	900mm					



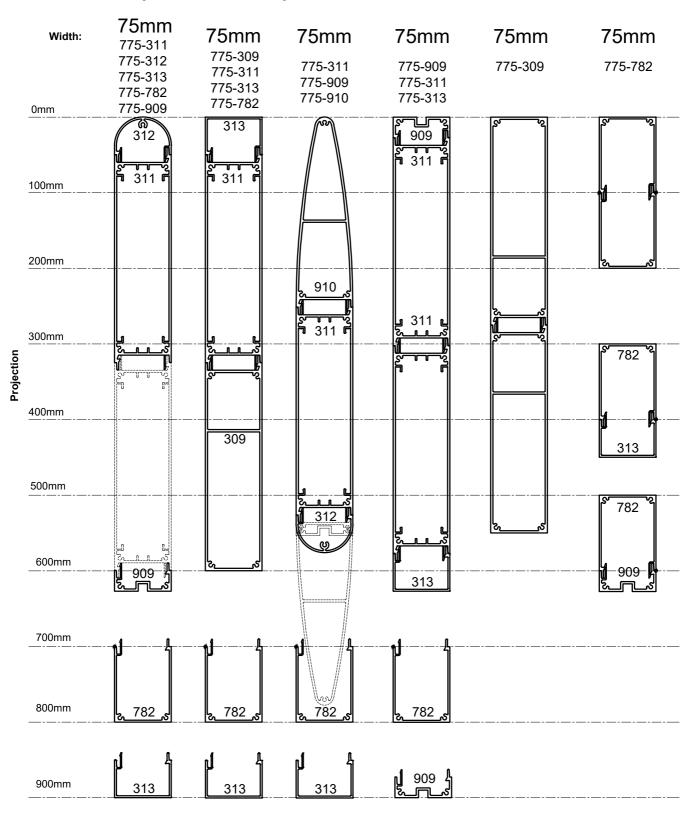
71 to 80mm WIDE SOLUTIONS

	Width:	72mm	72mm	75mm	75mm	75mm	75mm
		775-785 775-323	775-784 775-323	775-697	546-204	775-128 775-129 775-325	775-129 775-385 775-782
	<u>Omm</u>	75	e 3	w w	A	i w	
	100mm 200mm	785 785	784			128	385 M
	300mm		A P			1 t w 129	129
Projection	400mm	323					
			323			ശ്ര	ശ
	500mm					225	782
	600mm					325 %	
	700mm						s
	800mm						
	900mm						



75mm MODULAR

#NOTE: The following sections are interchangeable







71 to 80mm WIDE SOLUTIONS

	Width:	75mm	75mm	80mm 775-384	
	0mm	W W	<u>s</u>	775-152	
	100mm				
	200mm	-@ 9-			
Projection	300mm				
Proje	400mm				
	500mm				
	600mm				
	700mm				
	800mm 				
	900mm 				





61 to 70mm WIDE SOLUTIONS

	Width:	69mm	70mm	70mm	70mm	100mm
		775-261	775-190	546-065 415-027	775-109 775-110	775-010 775-009
	0mm 100mm	W		065	109	010
	200mm				110	
Projection	300mm		\[\frac{2}{\sqrt{2}} \]	027	<u></u>	
<u>.</u>	400mm					
	500mm		\vol			
	600mm					
	700mm					
	800mm					
	900mm					

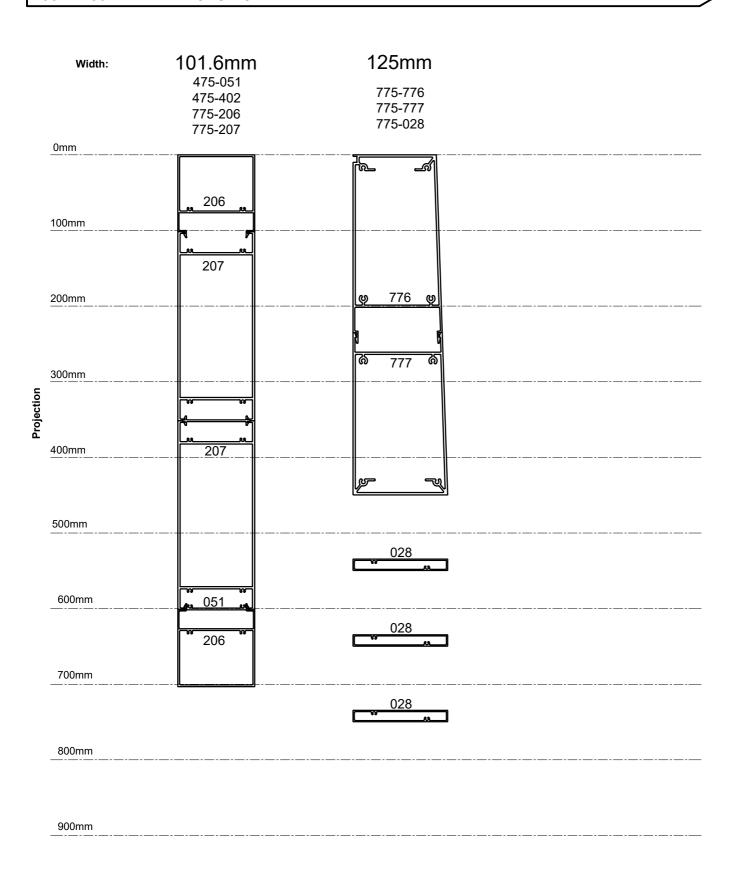


91 to 150mm WIDE SOLUTIONS

	Width:	94mm 775-191 775-192 775-193 775-194 775-197	100mm 775-109 775-048 775-009 775-185	100mm 775-010 775-048 775-009 775-185
	100mm	1974 w		010
	200mm	լո 191 _ա	009	009
Projection	300mm	¹ 192 ¹		185
	400mm		185	<u> </u>
	500mm	<u>m</u>		
	600mm			
	700mm	<u>n</u> <u>n</u>		
	800mm			
	900mm			



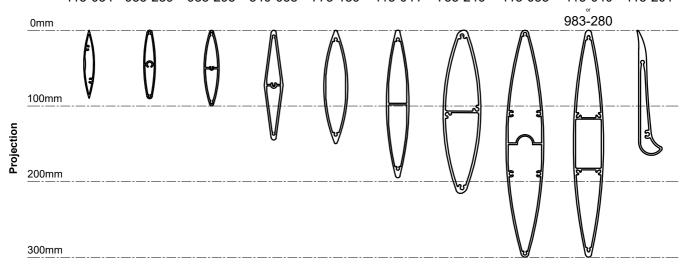
100 to 150mm WIDE SOLUTIONS

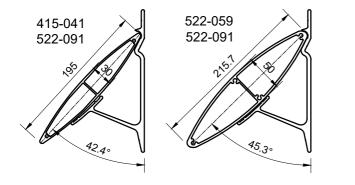




UP TO 70mm WIDE ELLIPTICAL SOLUTIONS

Width: 14mm 16mm 20mm 25mm 32mm 32mm 50mm 50mm 40mm 33mm 415-034 983-289 983-295 540-038 775-189 415-041 755-246 415-035 415-040 415-201









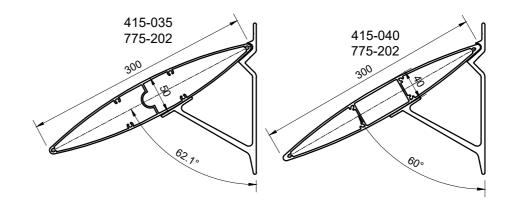
30mm

31.5mm ICT-235





59_{mm}



Note: Check stock levels and availability prior to use



UP to 70mm WIDE ELLIPTICAL SOLUTIONS

	Width:	50mm	70mm	70mm	70mm	70mm
	0mm	775-121 775-122	546-065	775-190	546-048 546-049	775-109 775-110
	100mm		8		S	109
	200mm	121	065	190	049	110
Projection	300mm	122	<u>2</u> 2		- V	
Proje	400mm	8 8	065	190	048	110
	500mm	121	<u>J</u>		3	109
	600mm	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
	700mm 	V				
	900mm					



71mm+ WIDE ELLIPTICAL SOLUTIONS

	Width:	72mm	72mm	72mm	72mm	75mm	75mm
		775-784	775-323 775-784	775-323 775-785	775-785	775-311 775-312 775-313	775-311 775-312
	<u>0mm</u>			785	785\	312	312
	100mm	784	784 2			313	311 3
	200mm			-	785	312	_
	300mm_					313	
Projection				323		313	312
_	400mm		323			312	
	500mm	<u>U</u>		785			
	600mm		784				
	700mm						
	800mm						
	900mm						98mm ICT-232

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100mm WIDE ELLIPTICAL SOLUTIONS 100mm 100mm 100mm 100mm 100mm Width: 100mm 775-009 775-009 775-009 775-009 775-009 775-009 775-010 775-109 775-048 775-010 775-048 775-010 775-048 775-109 775-048 775-109 0mm 010 010 010 109 109 109 100mm ഗ 009 ഗ 009 009 009 ഗ 009 009 200mm 300mm Projection 400mm 009 048 048 500mm M 009 048 048 009 സ 109 600mm 700mm ശ 009 048 010 109 800mm 009 900mm 009 010 109 1000mm Note: Check stock levels and availability prior to use