

G. James
is glass

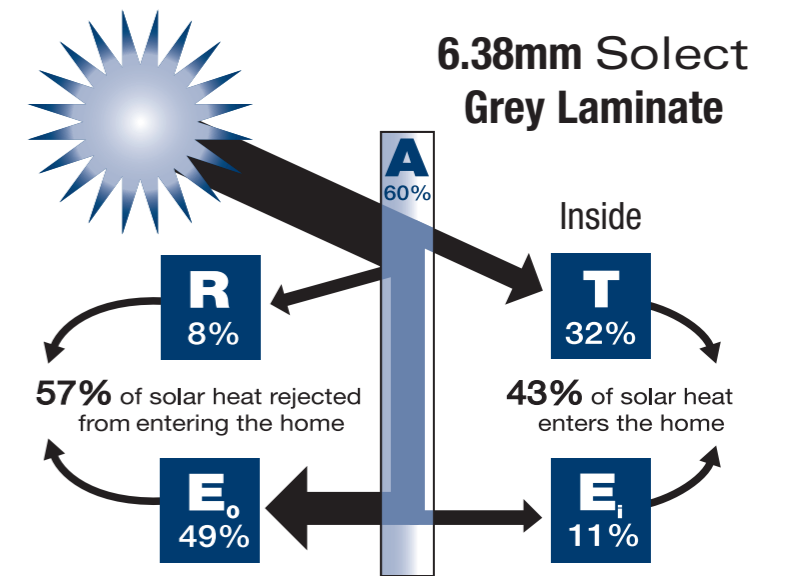
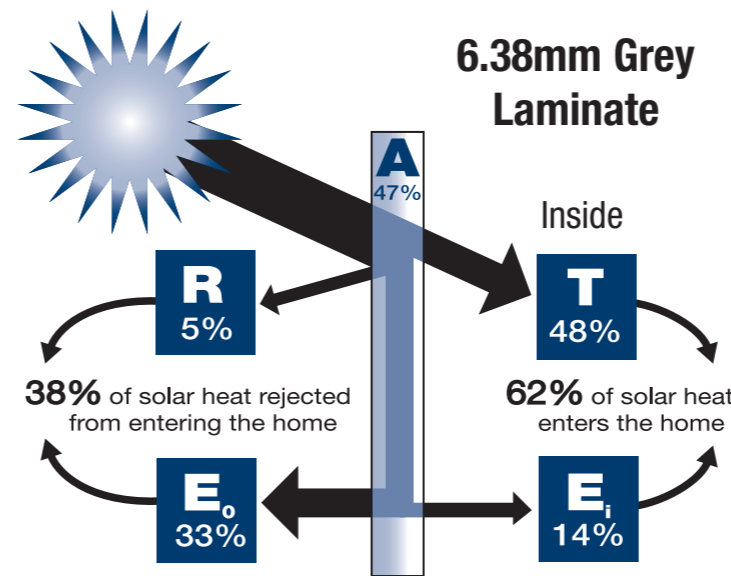
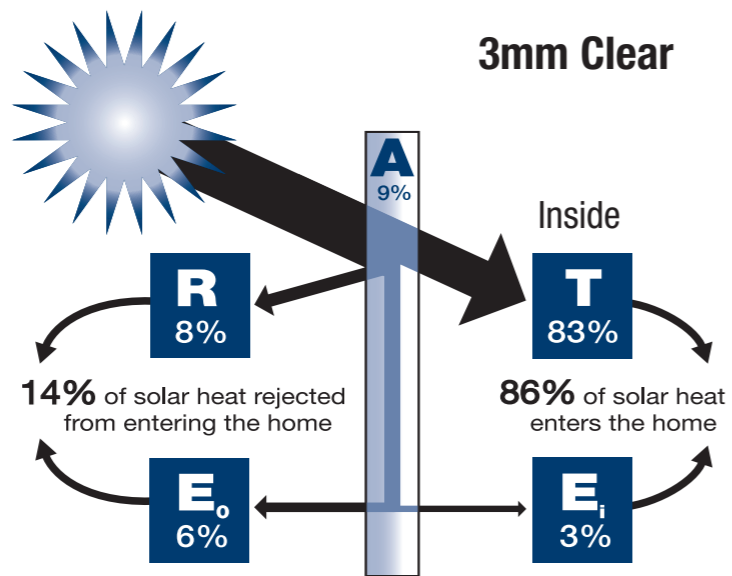
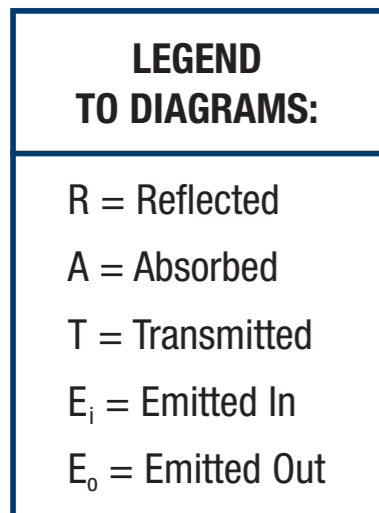
Your guide
to glass



Glass Type	3mm Clear*	5mm Green	5mm Grey	5mm Dark Grey	5mm Evergreen	6.76mm Clear Laminate	6.38mm Green Laminate	6.38mm Grey Laminate*	6.76mm XL121 Laminate	6.38mm Solect Clear Laminate	6.38mm Solect Green Laminate	6.38mm Solect Grey Laminate*	6.38mm Solarplus TS30 Clear Laminate	Twin Glaze 5mm Clear 6mm Air 5mm Clear	Twin Glaze 5mm Grey 6mm Air 5mm Clear
Colour / Tone	Clear	Green	Grey	Black	Dark Green	Clear	Green	Grey	Grey	Clear	Light Green	Light Grey	Silver	Clear	Grey
Visible Light Transmittance ¹	89%	79%	50%	20%	73%	88%	72%	44%	48%	81%	71%	47%	33%	79%	45%
Solar Heat Transmitted (SHGC) ²	86%	64%	62%	55%	58%	78%	73%	62%	53%	68%	49%	43%	41%	72%	50%
Insulation ³	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓✓ ^{1/2}	✓✓ ^{1/2}	✓✓ ^{1/2}	✓	✓✓✓	✓✓✓
Fade Control	✓	✓✓	✓✓	✓✓	✓✓✓	✓✓✓	✓✓✓✓	✓✓✓✓	✓✓✓✓	✓✓✓	✓✓✓✓	✓✓✓✓✓	✓✓✓✓✓	✓	✓✓
Noise Control	✓	✓✓	✓✓	✓✓	✓✓	✓✓✓✓✓	✓✓✓✓✓	✓✓✓✓✓	✓✓✓✓✓	✓✓✓✓✓	✓✓✓✓✓	✓✓✓✓✓	✓✓✓✓✓	✓✓✓	✓✓✓
Security	✓	✓	✓	✓	✓	✓✓✓✓ ^{1/2}	✓✓✓✓	✓✓✓✓	✓✓✓✓ ^{1/2}	✓✓✓✓	✓✓✓✓	✓✓✓✓	✓✓✓✓	✓✓✓	✓✓✓

* Refer to the RAT diagram below

¹ Visible Light Transmittance is the percentage of light transmitted through the glass where 100% represents an open hole in the wall. ² Solar Heat Transmitted or Solar Heat Gain Coefficient (SHGC) is the percentage of solar radiation (light and heat) from the sun that is initially transmitted through the glass plus a proportion of absorbed energy which is re-radiated back inside. 100% represents an open hole in the wall. The lower this figure, the better the glass is able to exclude and eliminate solar radiation. ³ Insulation is the measure of the air-to-air heat transfer (either loss or gain) due to thermal conductance and the difference between indoor and outdoor temperatures.



Note: ● Glass performance figures detailed above are based on NFRC methodology using the Lawrence Berkley National Laboratory's (LBNL) Windows 5.2 Software. ● Actual glass performance figures may vary due to manufacturing tolerances. ● The products presented in this document are a small selection of glass types available from the G. James range. Performance data for alternative glass types are available upon request. ● Information on 5mm Dark Grey is for comparison purposes only. This product is not recommended due to its low visible light transmittance. ● Information detailed above makes no representation of being an official rating system for windows, doors and/or glazing options. ● Glass thickness is dependant upon compliance with Australian Standards AS1288 – Glass in Buildings – Selection and Installation. Check with your G. James representative for advice. ● Evergreen is a registered trademark of Pilkington. ● Solarplus and Solect are registered trademarks of G. James Australia Pty. Ltd.

Colour / Tone	This is a personal choice for the home owner. Take time to consider which glass tone will best complement the colour scheme of your home.
Visible Light Transmittance¹	The higher this figure, the more daylight the glass allows to enter your building. Alternatively the lower this figure, the greater the glare control the glass provides. To reduce your reliance on 'artificial' lighting a minimum Visible Light Transmittance of 40% is suggested.
Solar Heat Transmitted (SHGC)¹	The lower this figure, the better the glass is at excluding and eliminating solar radiation. Carefully consider the orientation of your windows and doors in relation to your glass selection as larger exposed areas facing north and west elevations may require a lower SHGC to improve occupant comfort and reduce air conditioning.
Insulation	Think of this like a blanket around your house. In the more cooler regional areas or constantly air-conditioned houses a glass product with more ticks should be considered.
Fade Control	Fading is caused by a combination of ultra-violet (UV), infra-red & visible light. The more ticks here the greater the protection the glass provides to your valuable furnishings, carpets etc.
Noise Control	A common misconception is that I.G. Units are the best and only solution to controlling unwanted noise - this is not always the case. Laminated glass, constructed with a sound dampening PVB interlayer(s), is a practical and economical alternative for the home owner. For 'double glazing' to be an effective sound control measure a large air gap between the glass panes is necessary.
Security	The PVB interlayer within laminated glass offers an increased level of protection for people and property by providing an effective barrier against attack ² . Although laminated glass will break if attacked, the interlayer will hold the glass intact and resist penetration ensuring any attempt to enter your premises will be slow and noisy. A 6.76mm laminated product with it's thicker interlayer will provide a greater level of security.

¹ A definition of this term can be read under the Glass Options table in the centre spread (pgs 2 & 3) of this document. ² When compared to float glass.

WERS RATING FOR G.JAMES RESIDENTIAL PRODUCTS

Product	Clear Glass	Select Clear	Select Grey
131 Series XO Sliding Window	↘ Cooling ★ ★ Heating	★ ★ Cooling ★ ★ ★ Heating	★ ★ ★ Cooling ★ ★ ↘ Heating
245 Series XO Sliding Door	★ Cooling ★ ↘ Heating	★ ★ Cooling ★ ★ ★ Heating	★ ★ ★ Cooling ★ ★ Heating

These ratings were derived from computer simulation of the window's / door's performance. For further information on the Window Energy Rating Scheme (WERS) refer to the *G. James Residential Product Selector and Installation Guide*. WERS is administered by the Australian Window Association (AWA).

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Queensland

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|-------------------------------|----------------------------------|--------------------------------|-------------------------------|
| Eagle Farm, 30 French St. | Riverview, 15 Verrall St. | Gympie, 6 Bonnick Rd. | Rockhampton, Featherstone St. |
| Woodridge, 23 Kingston Rd. | Gold Coast, 636 Nerang Rd. | Hervey Bay, Lot 171 Booral St. | Mackay, 9 David Muir St. |
| Capalaba, 176 Redland Bay Rd. | Toowoomba, 319 Taylor St. | Bundaberg, 47 Enterprise St. | Townsville, 599 Ingham Rd. |
| Narangba, Sodium St. | S' Shine Coast, Maroochydore Rd. | Gladstone, 32 Benaraby St. | Cairns, 28 Redden St. |

New South Wales

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|-------------------------------|-----------------------|------------------------------|---------------------------|
| Smithfield (Syd), 26 Long St. | Lismore, 25 Habib St. | Port Macquarie, 6 Uralla Rd. | Newcastle, 10 Torrens Av. |
|-------------------------------|-----------------------|------------------------------|---------------------------|