

OptiLam

Glass without
boundaries

OptiLam LAMINATED GLASS



Defining
Spaces.

FEATURES

- Safety & security
- Strength & durability
- UV protection
- Heat & glare control
- Noise control



G.JAMES

OptiLam

G. James specialise in the production of high quality Laminated Glass.

G. James specialise in the production of high quality OptiLam (laminated) glass. OptiLam comprises a Polyvinyl butyral (PVB) interlayer which is sandwiched between two or more sheets of glass and then permanently bonded using a combination of heat and pressure. The resulting product is durable, versatile and suitable for a wide range of applications.

If broken, OptiLam has the unique quality of remaining intact within its frame* thereby minimising the risk of serious personal injury. This quality classifies OptiLam as a Grade A safety glass ensuring its suitability for a wide range of residential and commercial applications particularly where human impact is an issue. Such applications include doors, door side panels, floor-to-ceiling glazing and shopfronts.

* Dependent on the severity of the impact

In addition to the safety benefits, OptiLam offers the following additional benefits:

Security

Improved resistance to forced entry (when compared to monolithic glass options).

Noise Control

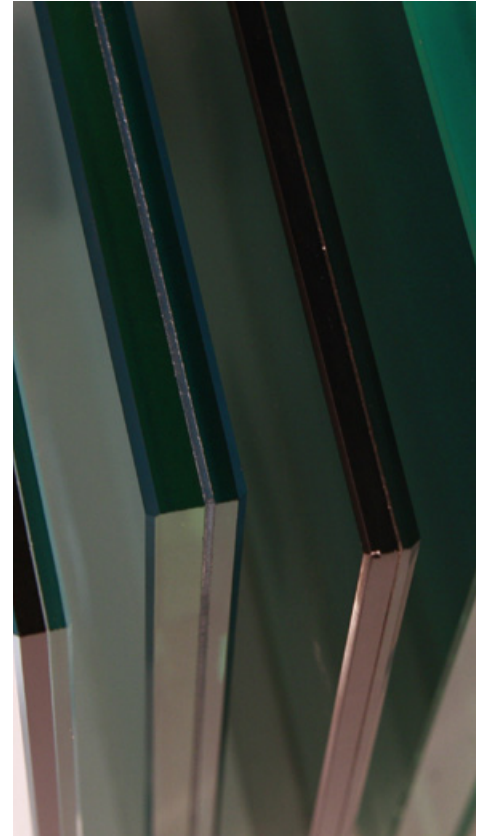
Sound dampening qualities reduce unwanted noise.

UV Protection

Eliminates 99% of harmful UV which is a major contributor to fading.

Heat And Glare Control

Tinted interlayer(s) or toned glass can be specified to assist in reducing solar heat gain and glare.



Sir Samuel Griffith Centre, Brisbane



RANGE

GJ OptiLam

The introductory level in the OptiLam range, this glass comprises a standard 0.38mm PVB clear or tinted interlayer combined with clear or tinted glass. OptiLam is supplied as an annealed laminate.

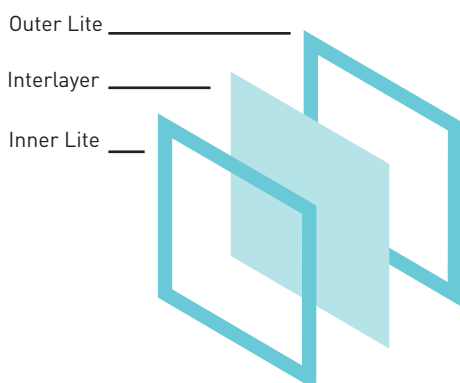
GJ OptiLam PLUS

For increased levels of security (resistance to penetration) and noise control, OptiLam PLUS is constructed using a thicker PVB interlayer - 0.76, 1.14 or 1.52mm. OptiLam Plus with a 1.52mm interlayer is a cost effective, anti-bandit solution for the glazing of jewellery, camera and high-end fashion shopfronts. OptiLam PLUS can be supplied in either an annealed, heat strengthened or toughened laminate.

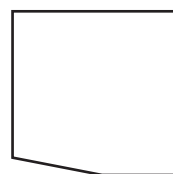
GJ OptiLam ULTRA

OptiLam ULTRA is the ultimate in laminated safety glass. It possesses excellent post-breakage resistance to evacuation or collapse due to the inclusion of a clear structural Ionoplast interlayer which is 5 times stronger and up to 100 times more rigid than a standard PVB interlayer. Specify OptiLam ULTRA for use in applications such as frameless balustrades, bolted glass assemblies and overhead glazing.

COMPOSITION



STANDARD COLOUR RANGE *



Clear



Green



Grey



Bronze



Cool Blue



Sky Blue

* Tinted glass only available for OptiLam and OptiLam PLUS.



Laminated Glass is a durable high-performance glazing material that can be utilised in a wide range of architectural applications.

ADVANTAGES

- Range of colours
- Range of Interlayer thicknesses
- Large panel sizes

APPLICATIONS

- Windows
- Doors
- Partitions
- Shopfronts
- Overhead glazing
- Balustrades

HOW TO SPECIFY

- **Select**
OptiLam
OptiLam PLUS
OptiLam ULTRA
- **Product configuration**
Glass colour / type
Process
 Annealed
 Toughened
 Heat Strengthened
Interlayer colour / type
Thickness:
 6.38mm – 25.52mm



Quality ISO 9001
SAI GLOBAL

GJ OPTILAM

PRODUCT	PERFORMANCE CHARACTERISTICS							
	Visible Properties (%)			Solar Properties (%)		Solar Heat Gain Coeff.	U-Value (W/m ² K)	Shading Coeff.
	Trans.	Ext. Refl.	Int. Refl.	Direct Trans.	Ext. Refl.			
6.38 mm Clear	88	8	8	72	7	0.79	5.75	0.9
6.38 mm Grey	42	5	5	47	6	0.62	5.75	0.71
6.38 mm Green	71	7	7	63	6	0.72	5.75	0.83
6.38 mm Bronze	52	6	6	51	6	0.64	5.75	0.74
6.38 mm Cool Blue	73	7	7	66	7	0.74	5.75	0.85
6.38 mm Sky Blue	54	6	6	57	6	0.68	5.75	0.79
10.38 mm Clear	86	8	8	66	7	0.74	5.63	0.85
10.38 mm Grey	41	5	5	42	5	0.59	5.61	0.67
10.38 mm Green	70	7	7	57	6	0.69	5.61	0.70
10.38 mm Bronze	51	6	6	46	5	0.61	5.61	0.70
10.38 mm Cool Blue	72	7	7	60	6	0.70	5.61	0.81
10.38 mm Sky Blue	53	6	6	51	6	0.65	5.61	0.75

GJ OPTILAM PLUS

PRODUCT	PERFORMANCE CHARACTERISTICS							
	Visible Properties (%)			Solar Properties (%)		Solar Heat Gain Coeff.	U-Value (W/m ² K)	Shading Coeff.
	Trans.	Ext. Refl.	Int. Refl.	Direct Trans.	Ext. Refl.			
6.76 mm Clear	88	8	8	71	7	0.78	5.69	0.89
6.76 mm Grey	43	5	5	47	6	0.62	5.69	0.71
6.76 mm Bronze	51	6	6	49	6	0.63	5.69	0.73
6.76 mm Green	72	7	7	63	6	0.72	5.69	0.83
6.76 mm Cool Blue	73	7	7	65	7	0.73	5.69	0.84
6.76 mm Sky Blue	54	6	6	56	6	0.68	5.69	0.78
10.76 mm Clear	86	8	8	65	7	0.74	5.56	0.85
10.76 mm Grey	42	5	5	42	5	0.59	5.56	0.67
10.76 mm Green	70	7	7	56	6	0.68	5.56	0.78
10.76 mm Bronze	50	6	6	44	5	0.6	5.56	0.69
10.76 mm Cool Blue	72	7	7	59	6	0.7	5.56	0.8
10.76 mm Sky Blue	52	6	6	51	6	0.64	5.56	0.74

GJ OPTILAM ULTRA

PRODUCT	PERFORMANCE CHARACTERISTICS							
	Visible Properties (%)			Solar Properties (%)		Solar Heat Gain Coeff.	U-Value (W/m ² K)	Shading Coeff.
	Trans.	Ext. Refl.	Int. Refl.	Direct Trans.	Ext. Refl.			
11.52 mm Clear	85	8	8	63	7	0.73	5.47	0.84

1. These figures are based on NFRC methodology using LBNL Window 6.3 software.
2. This performance data is centre of glass only and therefore cannot be used for BCA Section J calculations.
3. To the best of our knowledge, the data presented in this table is accurate and true. However, the G.James Group of Companies disclaim any liability for loss or damage arising from the use of such data.

ADVANCED SECURITY

Refer to the GJ ShieldTek brochure for advanced security & transport applications.

CUSTOM COLOURS

Refer to the GJ SpectraLite brochure for custom interlayer colours.

FREECALL 1800 452 637

Glass Products

gjames.com



Queensland
1007 Kingsford Smith Dr,
Eagle Farm QLD 4009

New South Wales
26 Long Street
Smithfield NSW 2164

Victoria
217 Rex Road,
Campbellfield VIC 3061

Other G.James Branches: (Qld) Eagle Farm, Logan City, Capalaba, Narangba, Ipswich, Gold Coast, Toowoomba, Sunshine Coast, Gympie, Hervey Bay, Bundaberg, Gladstone, Rockhampton, Mackay, Townsville & Cairns; (NSW) Sydney, Lismore, Newcastle, Taree & Queanbeyan; (SA) Adelaide; (NT) Darwin, (WA) Perth.
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