

PERFORMANCE MATRIX

LIGHT TRANSMISSION & SHADING COEFFICIENT



SMARTGLASS™

PERFORMANCE MATRIX

SMARTGLASS SOLUTIONS								
	SECURITY	SAFETY	SOLAR CONTROL	UV PROTECTION	SOUND CONTROL	DECORATIVE	BUILDING AESTHETICS	ENERGY EFFICIENCY
ClearVue™								
DecorVue®							(E)	
DecorLam™		(E)					(E)	(E)
Armourplate®		(E)					(E)	(G)
Armourclad®		(E)					(E)	(E)
Armourscreen®		(E)					(E)	(G)
ArmourLam™	(E)	(E)	(E)	(E)	(E)		(G)	(E)
Armourplate™ e range		(E)	(G)					(G)
Intruderprufe®	(E)	(E)			(E)			
Intruderprufe™ e range	(E)	(E)	(G)		(E)			(E)
Soundprufe™	(E)	(E)			(E)	(E)		
ColourVue™	(E)	(E)			(E)		(E)	(E)
SolarVue™	(E)	(E)	(G)		(E)			(E)
Solarshield®	(E)	(E)	(G)		(E)			(E)
CoolVue®	(E)	(E)	(G)		(E)	(G)		(G)
InsulVue®	(E)	(E)	(E)		(E)	(E)		(E)
Images®							(E)	
Activ™							(G)	

Quality, environmental management and safety

ISO standards

SmartGlass complies fully with the ISO 9001:2000 quality management standard, and manufactures specific products to other relevant international standards, including BS and ANSI. The SmartGlass manufacturing facility has also attained ISO 14001 certification for environmental management.

Building regulations

Laminated and toughened SmartGlass meet the safety requirements of the National Building Regulations as defined by SABS 1263-1. Laminates can also be manufactured on request to meet the SABS 1263-2 standard governing burglar and vandal resistance.

Warranty

All SmartGlass products carry a limited 10-year warranty. SmartGlass also underwrites a workmanship guarantee on all residential installations carried out by certified SmartGlass Partners.

SmartGlass is proud to be a South African company. Our manufacturing operations use South African raw materials and create jobs for South African workers. Our local experts are experienced with local conditions and have developed solutions that are ideal for South African applications. SmartGlass customers benefit in several ways:

- Replacement glazing is easy to source. For example, the glass used in extensions to the South African Reserve Bank building was matched 15 years after the original project was completed.
- Multiple stock sizes are available and customers can order as little as a single sheet.
- Locally manufactured products can be delivered within 48 hours in Gauteng and within 7 days in the rest of the country.

PERFORMANCE (E) - Excellent (G) - Good



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laminated glass

Glass selection

As different types of glass are better suited to different applications, the intended use of a space must be taken into account when selecting glass. In assessing the performance and suitability of glass for a specific application, two key measures to consider are shading coefficient and visible light transmission.

Shading coefficient

The ratio of total solar energy transmission of a glass compared to the total solar energy transmission of ordinary 3 mm glass (calculated to ASHRAE summer conditions). The higher the shading coefficient, the more solar heat is allowed into the building. This measurement is dependent on environmental factors such as wind, as well as the temperature inside and outside.

Visible light transmission

The percentage of visible light transmitted through the glass when the sun shines at right angles to the surface of the glass. Higher visible light transmission makes a building look more transparent from the outside, and makes the interior lighter and airier, increasing the productivity of retail and educational spaces. However, high light transmission may detract from the restfulness of a space and reduce office productivity by increasing glare on work surfaces and walls, and reducing visibility of computer and TV screens.

