

# COOLVUE®

laminated clear coated safety glass

CoolVue® glass meets the growing demand for natural day lighting and building transparency, without the heat gain associated with ordinary clear glass. CoolVue can transmit more than 70% of visible light while blocking more than 50% of solar heat. CoolVue clear or tinted glass offers similar levels of heat reflection as Solarshield, but CoolVue provides lower visible reflectivity, which allows through-vision by day and at night.

CoolVue is manufactured by laminating a wavelength-selective heat-rejecting coating between two layers of PVB (polyvinyl butyral) and glass. CoolVue also reduces sound transmission, increases safety and security, and filters up to 99.5% of damaging short-wave UV radiation.

## suggested applications

- Solar energy control
- Retail display and 'view' windows
- External solar screen
- Industrial and roofing glazing
- Two-way visibility
- Curtain walls
- UV elimination

## edge working

CoolVue must be edge-sealed. Please contact SmartGlass for sealing instructions. The edges of all heat absorbing glass should be polished to reduce the possibility of thermal breakage. The edges must be free of vented damage. These edges may be produced by a straight line polishing machine. Contact SmartGlass for a detailed thermal stress warranty.

## environmental influences

The visual appearance of coated glasses is determined not only by the colour of the glass and the coating. It is also influenced by environmental factors such as solar angle, ambient light level and quality, reflections in the glass, and the viewing angle.

The nature of coated glass makes it imperative to assess the true colour and reflectance of the proposed product in the context of an existing building, failing which in a full-scale mock-up, before a final selection is made. SmartGlass is available to assist in this process.

## coating: glazing guide

CoolVue is a sided product, meaning that its appearance may vary when viewed from different sides. SmartGlass laminates and double glazing are labelled by the factory to indicate the coated side or the side that should face to the outside. Care must be exercised when cutting or glazing to achieve the desired performance and appearance. It is important that the coated side be identified before cutting stock sheets. CoolVue must be edge sealed prior to glazing. CoolVue must only be installed with the coating towards the sun.

## sizes

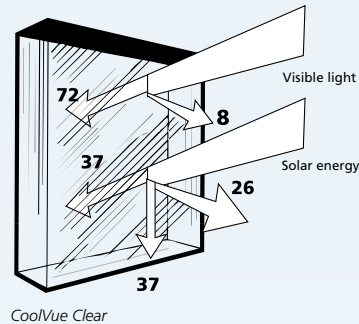
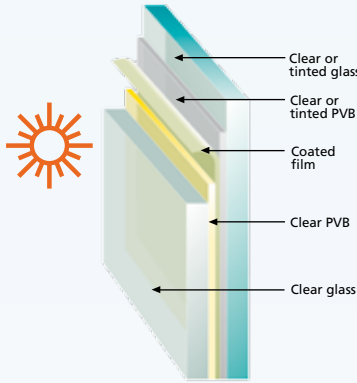
Thickness	6.76 mm	6.76 mm	8.76 mm
Stock size (mm)	2440 x 2000	3210 x 2000	3210 x 2000
Clear	S	R	R
Serene Green	R	R	R
Grey	S	R	R
Regal Blue	S	R	R

S = Available as standard; R = Available on request subject to order quantity and sheet sizes. Additional sizes and thicknesses available on request.

CoolVue is manufactured by SmartGlass under licence from Southwall Technologies, Palo Alto (California, USA). CoolVue is manufactured to the same standards as Southwall Technologies California Series™ laminated glass, which incorporates a high performance 'heat rejecting' Coating XIR®.

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## performance data

PRODUCT	VISIBLE LIGHT		SOLAR ENERGY					SHADING COEFFICIENT	U VALUE	UV	NOISE CONTROL	SAFETY	SECURITY	COOLVUE™
	transmission	reflection	total elimination	reflectance	absorption	direct transmission	total transmission							
<b>CoolVue Clear</b>	72	8	53	26	37	37	47	0.54	5.8	>99	35	2	2	
<b>CoolVue Regal Blue</b>	47	7	61	26	48	26	39	0.45	5.8	>99	35	2	2	
<b>CoolVue Grey</b>	35	6	66	25	55	20	34	0.40	5.8	>99	35	2	2	
<b>CoolVue Serene Green</b>	63	7	59	23	50	28	41	0.48	5.8	>99	35	2	2	

SAFETY AND SECURITY RATINGS: 1. Normal Strength (NS) for human impact safety (0.38 mm PVB interlayer); 2. High Penetration Resistant (HPR) for additional security (0.76 mm PVB interlayer); 3. High Impact (HI) for security in high-risk applications (1.52 mm PVB interlayer). SABS 1263 compliance: Ratings 1,2 and 3: compliance with SABS 1263-1. Rating 3: compliance with SABS 1263-2.

NOTES: 1. This data is based on tests conducted on 6.38 mm thick laminated glass. 2. To avoid the possibility of thermal stress fracture, it is always advisable to request that a thermal stress evaluation be conducted by SmartGlass. 3. Shading coefficients and U-Values are calculated using ASHRAE summer daytime conditions. 4. All values are given as an indication. Slight variations may occur due to the manufacturing tolerances.