

# SOLARVUE™

laminated coated safety glass

SolarVue™ provides medium solar control and a neutral, low-reflective appearance in a range of colours. A thin deposit of nickel and chromium eliminates more than 55% of solar heat, while transmitting more than 45% of visible light.

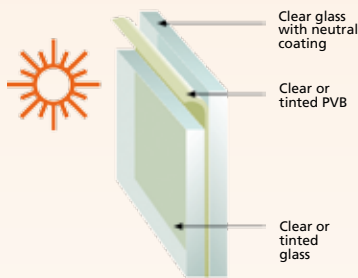
SolarVue also eliminates more than 99% of damaging UV radiation.

## suggested applications

- Medium solar energy control
- Glare reduction in buildings
- Glazed partitions and screens

## standards and options

SolarVue is a PVB laminated safety glass marked to SABS 1263-1. SolarVue can be custom-manufactured to meet various safety, security and noise reduction standards.



## coating densities

- High Light (HL)
- Extra High Light (XHL)
- Super High Light (SHL)
- Mega High Light (MHL)

## strength ratings

- Normal Strength (NS)
- High Penetration Resistant (HPR)
- High Impact (HI)

## edge workings

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 architectural solutions specialists are available to assist with project management and technical advice. Please contact the SmartGlass Service Centre on 0860 695 695.

## coating: glazing guide

SolarVue is a sided product, meaning that its appearance will vary when viewed from different sides. Care must be exercised when cutting and glazing to ensure a uniform appearance. Stock sheets are labelled by the factory to indicate the coated side. SolarVue neutral is best installed with the coating towards the sun. Tinted SolarVue products are normally glazed with the tinted side facing the sun. If optimum light and solar control are required, the coated side should be placed outside.

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## sizes

	6.38 mm NS	6.76 mm HPR	7.52 mm HI	8.38 mm NS	8.76 mm HPR	9.52 mm HI
Aquamarine	S	S	S	S	S	S
Blue	S	S	S	S	S	S
Bronze	S	S	S	S	S	S
Grey	S	S	S	S	S	S
Neutral	S	S	S	S	S	S
Regal Blue	S	S	S	S	S	S
Serene Green	R	R	R			
Standard sizes (mm)	2440 x 2000	2440 x 2000	2440 x 2000	3100 x 2440 3700 x 2440	3100 x 2440 3700 x 2440	3100 x 2440 3700 x 2440

S = Available as standard; R = Available on request

## performance data

PRODUCT	VISIBLE LIGHT			SOLAR ENERGY				SHADING COEFFICIENT	U VALUE	UV	NOISE CONTROL	SAFETY	SECURITY	
	range	transmission	reflection	total elimination	reflectance	absorption	direct transmission	total transmission	ratio	(W/m <sup>2</sup> ).K	elimination %	ISO rating / STC value	rating (see below)	rating (see below)
<b>Aquamarine</b>	HL	37	11	54	10	60	30	46	0.53	5.8	99	33	1	1
	XHL	45	9	48	9	54	37	52	0.60	5.8	98	33	1	1
<b>Blue</b>	HL	38	11	53	11	57	32	47	0.54	5.8	99	33	1	1
	XHL	46	8	47	8	53	39	53	0.61	5.8	98	33	1	1
<b>Bronze</b>	HL	27	8	58	8	68	24	42	0.49	5.8	99	33	1	1
	XHL	33	9	54	8	62	30	46	0.53	5.8	99	33	1	1
<b>Grey</b>	HL	23	7	59	8	70	22	41	0.47	5.8	99	33	1	1
	XHL	28	9	55	9	63	28	45	0.51	5.8	99	33	1	1
<b>Neutral</b>	HL	46	14	50	12	52	36	50	0.57	5.8	98	33	1	1
	XHL	56	9	44	9	47	44	56	0.65	5.8	98	33	1	1
	SHL	61	9	38	8	41	51	62	0.71	5.8	98	33	1	1
	MHL	68	8	34	7	37	56	66	0.76	5.8	98	33	1	1
<b>Regal Blue</b>	HL	31	9	55	10	61	29	45	0.52	5.8	99	33	1	1
	XHL	38	9	49	8	56	36	51	0.58	5.8	98	33	1	1
<b>SolarVue Serene Green</b>	HL	42	11	57	8	67	25	43	0.49	5.8	99	33	1	1
<b>SolarVue Serene Green</b>	XHL	53	9	51	7	61	32	49	0.56	5.8	99	33	1	1
<b>SolarVue Serene Green</b>	SHL	59	8	49	6	58	36	51	0.59	5.8	99	33	1	1
<b>SolarVue Serene Green</b>	MHL	67	7	44	6	52	42	56	0.64	5.8	99	33	1	1

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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.