



COLOURVUE LAMINATED (PVB) GLASS

PRODUCT RANGE

	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	R	R	R
Deep Aquamarine		S	S		R	R
Arctic Snow White	S	S	S	R	R	R
Coolblue	S	S	S	R	R	R
Deep Coolblue		S	S		R	R
Coolbronze	S	S	S	R	R	R
Deep Coolbronze		S	S		R	R
Coolgrey	S	S	S	R	R	R
Deep Coolgrey		S	S	R	R	R
Coral Rose Red	S	S	S	R	R	R
Deep Red	S	S	S	R	R	R
Evening Shadow Black	S	S	S	R	R	R

	6.38 mm NS	6.76 mm HPR	7.52 mm HI	8.38 mm NS	8.76 mm HPR	9.52 mm HI
Ruby Red	S	S	S	R	R	R
Sahara Sun Yellow	S	S	S	R	R	R
Sapphire Blue	S	S	S	R	R	R
Serene Green	R	R	R	R	R	R
Deep Serene Green	R	R	R			
Shadowlite 50	S			R		
Shadowlite 25	S	S		R	R	
Shadowlite 10		S	R		R	R
Regal Blue	S	S	S	R	R	R
Deep Regal Blue		S	S		R	R
True Blue	S	S	S	R	R	R

NS: NORMAL STRENGTH; **HI:** HIGH IMPACT; **HPR:** HIGH PENETRATION RESISTANT

S: AVAILABLE AS STANDARD; **R:** AVAILABLE ON REQUEST

- **NS (Normal Strength) For human impact safety.**
- **HPR (High Penetration Resistance.) For additional security.**
- **HI (High Impact) For security in high risk applications.**

STANDARD 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
Sizes mm	2440x2000	2440x2000	2440x2000	3210x2250	3100x2440	3100x2440
	3210x2250	3210x2250	3210x2250	3210x2440	3210x2440	3210x2440
	3210x2440	3210x2440	3210x2440	3660x2440	3660x2440	3660x2440
		3660X2440	3660X2440			

Total		Interlayer	Interlayer	Interlayer	Glass Thickness &
Thickness	Name	Thickness	QTY Tinted	QTY Clear	Construction
6.38 NS	Coolblue / coolbronze / coolgrey	0.38	1		3mm + 0.38 + 3mm
6.76 HPR	Coolblue / coolbronze / coolgrey	0.38	1	1	3mm + 0.38 + 0.38 + 3mm
7.52 HI	Coolblue / coolbronze / coolgrey	0.38	1	3	3mm + 0.38 + 0.38 + 0.38 + 3mm
6.76 HPR	Deep coolblue / Deep coolbronze / Deep coolgrey	0.38	2		3mm + 0.38 + 0.38 + 3mm
7.52 HI	Deep coolblue / Deep coolbronze / Deep coolgrey	0.38	2	2	3mm + 0.38 + 0.38 + 0.38 + 0.38 + 3mm
6.38 NS	Shadowlite 50	0.38	1		3mm + 0.38 + 3mm
6.38 NS	Shadowlite 25	0.38	1		3mm + 0.38 + 3mm
6.76 HPR	Shadowlite 25	0.38	1	1	3mm + 0.38 + 0.38 + 3mm
6.76 HI	Shadowlite 10	0.38	1	1	3mm + 0.38 + 0.38 + 3mm

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8.38 NS	Coolblue / coolbronze / coolgrey	0.38	1		4mm + 0.38 + 4mm
8.76 HPR	Coolblue / coolbronze / coolgrey	0.38	1	1	4mm + 0.38 + 0.38 + 4mm
Total		Interlayer	Interlayer	Interlayer	Glass Thickness &
Thickness	Name	Thickness	QTY Tinted	QTY Clear	Construction
9.52 HI	Coolblue / coolbronze / coolgrey	0.38	1	3	4mm + 0.38 + 0.38 + 0.38 + 4mm
8.76 HPR	Deep coolblue / Deep coolbronze / Deep coolgrey	0.38	2		4mm + 0.38 + 0.38 + 4mm
9.52 HI	Deep coolblue / Deep coolbronze / Deep coolgrey	0.38	2	2	4mm + 0.38 + 0.38 + 0.38 + 0.38 + 4mm

PRODUCT SPECIFICATIONS

		Visible Light		Solar Energy					Shading Coefficient	U Value	UV	Noise Control	Safety	Security
		Transmission	Reflection	Total Elimination	Reflectance	Absorption	Direct Transmission	Total Transmission	Ratio (CFG = 0.87)	(W/m).K	Elimination %	ISO rating/STC Value	Rating	Rating
Colourvue	Aquamarine	73%	7%	28%	6%	30%	64%	72%	0.83	5.8	98%	33	1	1
Colourvue	Deep Aquamarine	51%	6%	41%	6%	47%	47%	59%	0.68	5.8	99%	34	2	2
Colourvue	Coolblue	74%	7%	27%	6%	29%	65%	73%	0.84	5.8	98%	33	1	1
Colourvue	Deep Coolblue	62%	7%	32%	6%	35%	59%	68%	0.78	5.8	99%	34	2	2
Colourvue	Coolbronze	52%	6%	39%	5%	46%	49%	61%	0.70	5.8	98%	33	1	1
Colourvue	Deep Coolbronze	29%	5%	50%	5%	62%	33%	50%	0.57	5.8	99%	34	2	2
Colourvue	Coolgrey	44%	6%	40%	6%	47%	47%	60%	0.69	5.8	98%	33	1	1
Colourvue	Deep Coolgrey	23%	5%	52%	5%	64%	31%	48%	0.56	5.8	99%	34	2	2
Colourvue	Coral Rose Red	78%	7%	22%	7%	21%	72%	78%	0.89	5.8	99%	33	1	1
Colourvue	Deep Red	15%	6%	51%	6%	61%	33%	49%	0.57	5.8	99%	33	1	1

Table continues.....

Colourvue	Evening Shadow Black	50%	7%	39%	6%	45%	49%	61%	0.70	5.8	99%	33	1	1
Colourvue	Regal Blue	54%	6%	33%	6%	37%	57%	67%	0.77	5.8	98%	33	1	1
Colourvue	Deep Regal Blue	43%	5%	39%	5%	46%	49%	61%	0.70	5.8	99%	34	2	2
Colourvue	Ruby Red	50%	6%	29%	7%	30%	63%	71%	0.82	5.8	99%	33	1	1
Colourvue	Sahara Sun Yellow	78%	9%	29%	8%	29%	63%	71%	0.81	5.8	99%	33	1	1
Colourvue	Sapphire Blue	51%	6%	35%	6%	39%	55%	65%	0.75	5.8	99%	33	1	1
Colourvue	Shadowlite 50	57%	6%	38%	6%	43%	51%	62%	0.72	5.8	98%	33	1	1
Colourvue	Shadowlite 25	29%	5%	51%	5%	63%	32%	49%	0.56	5.8	99%	33	1	1
Colourvue	Shadowlite 10	9%	5%	64%	4%	82%	14%	36%	0.41	5.8	99%	34	2	2
Colourvue	Serene Green	77%	7%	41%	5%	48%	47%	59%	0.68	5.8	98%	33	1	1
Colourvue	Deep Serene Green	69%	6%	50%	4%	62%	34%	50%	0.58	5.8	98%	33	1	1
Colourvue	True Blue	14%	5%	46%	6%	55%	39%	54%	0.62	5.8	99%	33	1	1
Colourvue Translucent	Aquamarine Translucent	40%	13%	50%	11%	53%	36%	50%	0.57	5.8	99%	34	2	2
Colourvue Translucent	Arctic Snow White	62%	14%	34%	11%	32%	57%	66%	0.75	5.8	99%	33	1	1
Colourvue Translucent	Blue Translucent	49%	10%	40%	9%	42%	49%	60%	0.69	5.8	99%	34	2	2
Colourvue Translucent	Regal Blue Translucent	30%	10%	54%	10%	60%	30%	46%	0.53	5.8	99%	34	2	2
Colourvue Translucent	Bronze Translucent	30%	5%	50%	5%	62%	33%	50%	0.57	5.8	99%	34	2	2
Colourvue Translucent	Grey Translucent	27%	5%	50%	6%	61%	33%	50%	0.57	5.8	99%	34	2	2

TERMS AND DEFINITIONS

What is the difference between Coolgrey and Deep Coolgrey?

Coolgrey has 1 grey vinyl and Deep Coolgrey has 2.

Applies to all 'Deep' colours except for Deep Red – only has 1 vinyl.

Serene Green & Deep Serene Green – colour is in glass and NOT the vinyl – odd one out!

Only available in 2 sizes: 3210 x 2440 and 3210 x 2250

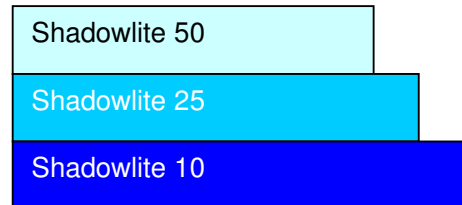
Serene Green: **Clear** Glass + 0.38mm **Clear** Vinyl + **Green** Glass

Deep Serene Green: **Green** Glass + 0.38mm **Clear** Vinyl + **Green** Glass

Shadowlite 50: (Dark) 57% light transmission tinted interlayer.

Shadowlite 25: (Darker) 29% light transmission tinted interlayer.

Shadowlite 10: (Darkest) 9% light transmission tinted interlayer



Visible Light

This is made up of all colours of the rainbow, it is the light humans can see. It is also known as “white light”.

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 creates a lighter interior.

Visible Light Reflection

The percentage of visible light reflected from the surface of the glass, when the sun shines at right angles to the surface of the glass. The reflection increases as the angle of the sun decreases.

Solar Energy

Solar energy is high temperature energy radiated by the sun. It is the energy received from the sun on the surface of the earth. This includes the energy from the ultraviolet, visible and infrared segments of the solar spectrum.

- **Solar Heat Elimination**

The portion of the sun’s energy stopped by the glass or glazing system. This value will change when subjected to varying environmental conditions. The environmental conditions, which affect solar heat elimination, include air speed against both surfaces of the glass and temperature.

- **Solar Energy Control**

A solar control glazing system **Reflects, Absorbs and Transmits (RAT)** solar energy. Laminated glass contains an interlayer. Energy that would pass through clear glass is absorbed by this interlayer. A variety of interlayer colours are available to absorb solar radiation – the darker the colour, the greater the solar control. The increased use of glass in architecture today makes it imperative to consider the comfort of a building’s occupants and energy efficiency.

Example:

Grey Solarvue XHL RAT

Reflectance 9

Absorption 63

Direct Transmission 28

100 (RAT always = 100)

- **Reflectance**

The parts of the sun’s energy which is reflected by the glass.

- **Absorption**

The part of the sun’s energy which is absorbed into the glass.

- **Direct Transmission**

The part of the sun’s energy which passes directly through the glass.

- **Total Energy Transmission**

The sum of the direct energy transmission and the portion of the absorbed energy that is radiated to the interior of the glazing system. Also called Solar Heat Gain Coefficient (SHGC).

Shading Coefficient

Shading Coefficient is a measure of the total amount of heat passing through the glazing system (known as the solar heat transmittance) compared to a single clear glass. Clear Float Glass (CFG) has a shading coefficient of 1. Therefore, a shading coefficient of 0.50 represents a reduction of 50% of the heat that would have been transmitted when compared to a single sheet of CFG. In other words the lower the shading coefficient, the less solar heat is allowed into the building.

How to calculate?

SC = Total Energy Transmission (TET) of the glass (87 is the total energy transmission for CFG)

U-factor (U-value)

The lower the better!! The U-factor measures how well a product prevents the conductance/transfer of heat or cold through building material. A lower U-factor means a better insulated window or door.

Ultraviolet Light (UV)

Ultraviolet rays are found in everyday sunlight and can cause fading of paint finishes, carpets and fabrics.

Thermal Insulation

The ability to restrict the flow of heat.

Coated Glass

Glass with a chemical coating applied to one surface of the glass. The coating can provide such enhanced performance characteristics such as privacy, solar control or mirror effects.

Coated Interlayer

Interlayer made from multiple stacks of coating also known as sputter soft coated products. The coating is encapsulated inside the interlayer.

Coated Densities

The thicker the coating, the less light is transmitted through the glass.

- High Light (HL) - 40%
- Extra High Light (XHL) - 50%
- Super High Light (SHL) - 60%
- Mega High Light (MHL) - 70%
- Ultra High Light (UHL) - 80%

Annealed Glass

To prevent or remove stresses in glass by controlled cooling. It is in fact "ordinary" glass as taken from the production line and stored in stock plates. Annealed glass, when broken, gives large fragments with sharp edges and so is not classified as a safety glass.