

Laminated Glass with Vanceva® #S-2180 interlayer
Optical, Solar, Thermal and Color Properties Datasheet

The configuration as described below was calculated using LBNL OPTICS and WINDOW software with standard NFRC/ASHRAE conditions.

Configuration:				
3 mm (1/8 inch) clear glass - Vanceva® #S-2180 ; 0.76 mm (0.030 inch) - 3 mm (1/8 inch) clear glass				
Vanceva® Earth Tone RB S-2180 Cool White (Diffuse White)				
Optical (%) and Thermal Properties			SI	IP
Solar Transmittance %	65	U factor W/m2-K(Btu/hr-ft2-F)	5.68	1.00
Reflectance Solar (front)	8	Shading Coefficient	0.84	0.84
Reflectance Solar (back)	8	Solar Heat Gain Coefficient (SHGC; g)	0.73	0.73
Visible Light Transmittance %	79	Relative Heat Gain W/m2 (Btu/hr-ft2)	572	182
Visible Reflectance (front) %	9	GST Outboard -18°C (-0.4°F)	-10	13
Visible Reflectance (back) %	9	GST Inboard 21°C (69.8°F)	-8	17
Absorptance (Solar)	28	GST Outboard 32°C (89.6°F)	37	99
Tdw-K	0.26	GST Inboard 24°C (75.2°F)	37	99
Tdw-ISO	0.55	Light to Solar Gain (LSG)	1.08	
Tuv	<1%	Effective Aperture	30%=0.026	80%=0.052

Color Properties	Dom. WL	Purity	L*	a*	b*
Transmittance	0.55	1.60	91.38	-1.94	1.87
Reflectance	0.48	2.30	35.34	-1.10	-0.70
R (Transmittance)	228		TRANSLUCENT WHITE COLOR		
G (Transmittance)	231				
B (Transmittance)	225				
Color Rendering Index (Transmittance)	98				

Data reported in metric (SI) units with Inch Pound (IP) standard units calculated. GST: Glass surface temperatures - provided for inboard and outboard glass for conditions noted including standard wind conditions.

For specification purposes color consists of 2 Saflex and/or Vanceva color layers and is referenced as Vanceva® Interlayer Color #S-2180.

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