

# Product Data Sheet



## Vistacool® Subtly Reflective and Solarcool® Reflective Glasses

### Aesthetic Description

Vitro Architectural Glass (formerly PPG glass) makes two families of reflective coated glasses. Vistacool® subtly reflective glass coating is applied to the second surface of Azuria® and Pacifica® tinted glasses to enrich the glass color while adding an understated, soft reflectivity.

Introduced in 1972, Solarcool® reflective glass coating can be applied to either the first or second surface for dramatically different aesthetics on blue, green, gray and bronze tinted glasses by Vitro Glass. On the second surface, Solarcool® reflective glass coating adds reflectivity and deepens the hue of the tinted glass substrate. On the first surface, it creates a bright metallic appearance and mutes the tinted glass substrate color.

### Performance Characteristics

Vistacool® and Solarcool® reflective glasses reduce energy consumption by reflecting solar heat gain, but for improved performance, may be paired in insulating glass units (IGUs) with Solarban® solar control, low-e glasses and Sungate® passive low-e glasses to achieve desired solar control or insulating performance. With its subtle reflectivity, Vistacool® glass delivers higher levels of Visible Light Transmittance (VLT) and a truer substrate color rendering than Solarcool® glass.

### Fabrication and Availability

Vistacool®, Solarcool® and Sungate® glasses provide maximum processing flexibility and can be laminated, tempered or heat-strengthened to satisfy increased strength or safety glazing requirements. They are available through hundreds of Vitro-qualified fabricators throughout the world. Vistacool® and Solarcool® reflective glasses are combined in an insulating glass unit with Solarban® low-e glasses, which are available through the Vitro Certified™ Network.

### Additional Resources

Vitro Architectural Glass encompasses a number of environmentally sustainable architectural glass products, Vistacool® Subtly Reflective and Solarcool® Reflective Glasses, as well as those with Solarban® and Sungate® glass coatings. For more information, or to obtain samples of any Vitro glass product, contact our Architectural Services Hotline at **1-855-VTRO-GLS (887-6457)** or visit [vitroglazings.com](http://vitroglazings.com).

Vitro Architectural Glass is the first U.S. float glass manufacturer to have its products recognized by the Cradle to Cradle Certified™ program, and offers more C2C-certified architectural glasses than any other float glass manufacturer.



**Omni Fort Worth Hotel**

Location: Fort Worth, TX | Products: Solarban® z50, Vistacool® Azuria® Glasses | Architect: HOK | Glazing Contractor: Trainor Glass | Glass Fabricator: Oldcastle BuildingEnvelope®



Vistacool® Subtly Reflective and Solarcool® Reflective Glasses

Table of Performance Values								
Glass Type Coating if Any (Surface) Outdoor Lite: Indoor Lite:	Visible Light Transmittance (VLT)	Visible Light Reflectance		(BTU/hr <sup>2</sup> ft <sup>20</sup> °F) NFRC U-Value		Solar Heat Gain Coefficient (SHGC)	Light to Solar Gain (LSG)	
		Exterior %	Interior %	Winter Nighttime	Winter Argon			
<b>Monolithic (6mm)</b>								
Vistacool® (2) Azuria® Glass	52	19	29	1.02	na	0.46	1.13	
Vistacool® (2) Pacifica® Glass	32	10	28	1.02	na	0.44	0.73	
Solarcool® (2) Solargray® Glass	17	11	36	1.03	na	0.44	0.39	
Solarcool® (2) Solarbronze® Glass	21	13	36	1.03	na	0.47	0.45	
Solarcool® (2) Solexia® Glass	30	23	37	1.03	na	0.43	1.26	
Solarcool® (2) Solarblue® + Clear	21	14	36	1.02	na	0.45	0.47	
Solarcool® (2) Azuria® Glass	26	36	19	1.03	na	0.38	0.68	
Solarcool® (2) Pacifica® Glass	16	10	36	1.02	na	0.38	0.42	
Insulating Vision Unit Performance Comparisons 1-inch (25mm) units with 1/2-inch (13mm) airspace and two 1/4-inch (6mm) lites								
<b>Vistacool® Azuria® Glass</b>								
Vistacool® (2) Azuria® + Solarban® 70XL (3)	38	21	23	0.28	0.24	0.24	1.58	
Vistacool® (2) Azuria® + Solarban® 60 (3) Clear	42	20	24	0.29	0.24	0.26	1.62	
Vistacool® (2) Azuria® + Clear	47	21	32	0.47	0.45	0.34	1.38	
<b>Vistacool® Pacifica® Glass</b>								
Vistacool® (2) Pacifica® + Solarban® 70XL (3)	24	11	22	0.28	0.24	0.19	1.26	
Vistacool® (2) Pacifica® + Solarban® 60 (3) Clear	26	11	23	0.29	0.24	0.21	1.24	
Vistacool® (2) Pacifica® + Clear	29	11	31	0.47	0.45	0.32	0.91	
<b>Solarcool® Solargray® Glass</b>								
Solarcool® (2) Solargray® + Solarban® 70XL (3)	13	11	27	0.28	0.24	0.14	0.93	
Solarcool® (2) Solargray® + Solarban® 60 (3) Clear	14	11	29	0.29	0.24	0.17	0.82	
Solarcool® (2) Solargray® + Clear	16	11	38	0.47	0.45	0.32	0.50	
<b>Solarcool® Solarbronze® Glass</b>								
Solarcool® (2) Solarbronze® + Solarban® 70XL (3)	15	14	27	0.28	0.24	0.15	1.00	
Solarcool® (2) Solarbronze® + Solarban® 60 (3) Clear	17	14	29	0.29	0.24	0.18	0.94	
Solarcool® (2) Solarbronze® + Clear	19	14	38	0.47	0.45	0.34	0.56	
<b>Solarcool® Solexia® Glass</b>								
Solarcool® (2) Solexia® + Solarban® 70XL (3)	22	24	27	0.28	0.24	0.17	1.29	
Solarcool® (2) Solexia® + Solarban® 60 (3) Clear	24	24	29	0.29	0.24	0.19	1.26	
Solarcool® (2) Solexia® + Clear	27	24	38	0.47	0.45	0.31	0.87	
<b>Solarcool® Azuria® Glass</b>								
Solarcool® (2) Azuria® + Solarban® 70XL (3)	19	19	27	0.28	0.24	0.15	1.27	
Solarcool® (2) Azuria® + Solarban® 60 (3) Clear	21	19	29	0.29	0.24	0.17	1.24	
Solarcool® (2) Azuria® + Clear	24	20	38	0.47	0.45	0.25	0.96	
<b>Solarcool® Solarblue® Glass</b>								
Solarcool® (2) Solarblue® + Solarban® 70XL (3)	16	14	27	0.28	0.24	0.15	1.07	
Solarcool® (2) Solarblue® + Solarban® 60 (3) Clear	17	14	29	0.29	0.24	0.18	0.94	
Solarcool® (2) Solarblue® + Clear	20	15	38	0.47	0.45	0.32	0.63	
<b>Solarcool® Pacifica® Glass</b>								
Solarcool® (2) Pacifica® + Solarban® 70XL (3)	12	10	27	0.28	0.24	0.13	0.92	
Solarcool® (2) Pacifica® + Solarban® 60 (3) Clear	13	10	29	0.29	0.24	0.15	0.87	
Solarcool® (2) Pacifica® + Clear	15	10	38	0.47	0.45	0.25	0.60	

Vistacool® glass is not available for first-surface applications. Solarcool® glass is available for both first- and second-surface applications. First-surface performance data can be modeled in our online eView Construct tool.

All performance data calculated using LBNL Window 7.3 software representing center of glass performance data. For detailed information on the methodologies used to calculate the aesthetic and performance values in this table, please visit vitroglazings.com or request our Architectural Glass Catalog.

For more information about Reflective and Subtly Reflective Glasses and other *Cradle to Cradle Certified™* architectural glasses by Vitro Glass, visit [vitroglazings.com](http://vitroglazings.com), or call 1-855-VTRO-GLS (1-855-887-6457).

