



# Vistacool® Subtly Reflective and Solarcool® Reflective Glasses



## Aesthetic Description

PPG manufactures two families of reflective glasses.

**Vistacool®** subtly reflective glasses have been designed to enrich **Azuria®** and **Pacifica®** glass substrates. They feature a softly reflective appearance that enriches the color of the underlying glass substrate and is more understated than the mirror-like aesthetic of traditional reflective glass.

**Solarcool®** glasses, which were introduced in 1972 and feature a classic reflective glass appearance, are designed to complement PPG's blue, green, gray and bronze tinted glasses while blocking solar heat to save energy and enhance the comfort of building occupants.

## Performance Characteristics

In addition to being used as coatings on tinted glasses by PPG, **Vistacool®** and **Solarcool®** glasses 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 PPG-qualified fabricators throughout the world. **Vistacool®** and **Solarcool®** reflective glasses combined in an insulating glass unit with **Solarban®** low-e glasses, which are available through the **PPG Certified Fabricator® Network**.



## Additional Resources

**Ecological Solutions from PPG™**

encompass a number of environmentally sustainable architectural glass products, including many tinted glasses and those with **Vistacool®**, **Solarcool®**, **Solarban®** and **Sungate®** glass coatings.

For more information, or to obtain samples of any PPG glass product, call **888-PPG-IDEA (774-4332)** or visit [www.ppgideaspaces.com](http://www.ppgideaspaces.com).



PPG 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™

Glass Type (Coating if Any (Surface) Glass) Outdoor Lite: + Indoor Lite:	Transmittance <sup>2</sup>			Reflectance <sup>2</sup>		U-Value <sup>3</sup> NFRC (BTU/hr•ft <sup>2</sup> •F)		European U-Value <sup>4</sup> EN 673 (W/m <sup>2</sup> •°C)	Shading Coefficient <sup>5</sup>	Solar Heat Gain Coefficient <sup>6</sup>	Light to Solar Gain (LSG) <sup>7</sup>
	Ultra-violet %	Visible %	Total Solar Energy %	Exterior Light %	Interior Light %	Winter Night- time	Summer Day- time				
<b>Monolithic (6mm)</b>											
VISTACOO (2) AZURIA	35	52	25	19	29	1.02	0.92	5.7	0.52	0.46	1.13
VISTACOO (2) PACIFICA	12	32	22	10	28	1.02	0.93	5.7	0.51	0.44	0.73
SOLARCOOL (2) SOLARGRAY	7	17	23	11	36	1.03	0.93	5.8	0.51	0.44	0.39
SOLARCOOL (2) SOLARBRONZE	7	21	27	13	36	1.03	0.93	5.8	0.53	0.47	0.45
SOLARCOOL (2) SOLEXIA	9	30	23	23	37	1.03	0.93	5.8	0.50	0.43	0.70
SOLARCOOL (2) SOLARBLUE	9	21	24	14	36	1.02	0.93	5.8	0.51	0.45	0.47
SOLARCOOL (2) AZURIA	12	26	13	19	36	1.03	0.93	5.8	0.44	0.38	0.68
SOLARCOOL (2) PACIFICA	4	16	13	10	36	1.02	0.93	5.8	0.44	0.38	0.42
<b>Insulating Vision Unit Performance Comparisons 1-inch (25mm) units with 1/2-inch (13mm) airspace and two 1/4-inch (6mm) lites</b>											
<b>VISTACOO AZURIA GLASS</b>											
VISTACOO (2) AZURIA + SOLARBAN 70XL (3)	4	38	14	21	23	0.28	0.26	1.5	0.27	0.24	1.58
VISTACOO (2) AZURIA + SOLARBAN 60 (3) Clear	11	42	16	20	24	0.29	0.27	1.6	0.30	0.26	1.62
VISTACOO (2) AZURIA + SUNGATE 600 (3) Clear	22	43	18	22	29	0.33	0.32	1.8	0.33	0.29	1.48
VISTACOO (2) AZURIA + SUNGATE 500 (3) Clear	24	44	19	22	31	0.35	0.35	2.0	0.34	0.29	1.52
VISTACOO (2) AZURIA + Clear	29	47	22	21	32	0.47	0.50	2.8	0.39	0.34	1.38
<b>VISTACOO PACIFICA GLASS</b>											
VISTACOO (2) PACIFICA + SOLARBAN 70XL (3)	1	24	9	11	22	0.28	0.26	1.5	0.22	0.19	1.26
VISTACOO (2) PACIFICA + SOLARBAN 60 (3) Clear	4	26	12	11	23	0.29	0.27	1.6	0.25	0.21	1.24
VISTACOO (2) PACIFICA + SUNGATE 600 (3) Clear	8	27	14	11	29	0.33	0.32	1.8	0.30	0.26	1.04
VISTACOO (2) PACIFICA + SUNGATE 500 (3) Clear	9	27	16	11	30	0.35	0.35	2.0	0.31	0.27	1.00
VISTACOO (2) PACIFICA + Clear	10	29	19	11	31	0.47	0.50	2.8	0.37	0.32	0.91
<b>SOLARCOOL SOLARGRAY GLASS</b>											
SOLARCOOL (2) SOLARGRAY + SOLARBAN 70XL (3)	1	13	5	11	27	0.28	0.26	1.5	0.16	0.14	0.93
SOLARCOOL (2) SOLARGRAY + SOLARBAN 60 (3) Clear	2	14	8	11	29	0.29	0.27	1.6	0.20	0.17	0.82
SOLARCOOL (2) SOLARGRAY + SUNGATE 600 (3) Clear	5	14	12	11	34	0.33	0.32	1.8	0.29	0.25	0.56
SOLARCOOL (2) SOLARGRAY + SUNGATE 500 (3) Clear	5	15	14	11	36	0.35	0.35	2.0	0.30	0.26	0.58
SOLARCOOL (2) SOLARGRAY + Clear	6	16	18	11	38	0.47	0.50	2.8	0.36	0.32	0.50
<b>SOLARCOOL SOLARBRONZE GLASS</b>											
SOLARCOOL (2) SOLARBRONZE + SOLARBAN 70XL (3)	1	15	6	14	27	0.28	0.26	1.5	0.17	0.15	1.00
SOLARCOOL (2) SOLARBRONZE + SOLARBAN 60 (3) Clear	2	17	9	14	29	0.29	0.27	1.6	0.21	0.18	0.94
SOLARCOOL (2) SOLARBRONZE + SUNGATE 600 (3) Clear	5	17	15	14	34	0.33	0.32	1.8	0.33	0.28	0.61
SOLARCOOL (2) SOLARBRONZE + SUNGATE 500 (3) Clear	5	18	17	14	36	0.35	0.35	2.0	0.34	0.29	0.62
SOLARCOOL (2) SOLARBRONZE + Clear	6	19	21	14	38	0.47	0.50	2.8	0.40	0.34	0.56
<b>SOLARCOOL SOLEXIA GLASS</b>											
SOLARCOOL (2) SOLEXIA + SOLARBAN 70XL (3)	1	22	8	24	27	0.28	0.26	1.5	0.20	0.17	1.29
SOLARCOOL (2) SOLEXIA + SOLARBAN 60 (3) Clear	3	24	10	24	29	0.29	0.27	1.6	0.22	0.19	1.26
SOLARCOOL (2) SOLEXIA + SUNGATE 600 (3) Clear	6	25	14	24	34	0.33	0.32	1.8	0.29	0.26	0.96
SOLARCOOL (2) SOLEXIA + SUNGATE 500 (3) Clear	6	25	15	24	37	0.35	0.35	2.0	0.31	0.27	0.93
SOLARCOOL (2) SOLEXIA + Clear	7	27	19	24	38	0.47	0.50	2.8	0.36	0.31	0.87
<b>SOLARCOOL AZURIA GLASS</b>											
SOLARCOOL (2) AZURIA + SOLARBAN 70XL (3)	1	19	6	19	27	0.28	0.26	1.5	0.18	0.15	1.27
SOLARCOOL (2) AZURIA + SOLARBAN 60 (3) Clear	4	21	8	19	29	0.29	0.27	1.6	0.19	0.17	1.24
SOLARCOOL (2) AZURIA + SUNGATE 600 (3) Clear	8	23	10	21	35	0.35	0.33	1.8	0.24	0.21	1.10
SOLARCOOL (2) AZURIA + SUNGATE 500 (3) Clear	8	22	10	20	36	0.35	0.35	2.0	0.23	0.20	1.10
SOLARCOOL (2) AZURIA + Clear	10	24	12	20	38	0.47	0.50	2.8	0.29	0.25	0.96
<b>SOLARCOOL SOLARBLUE GLASS</b>											
SOLARCOOL (2) SOLARBLUE + SOLARBAN 70XL (3)	1	16	6	14	27	0.28	0.26	1.5	0.18	0.15	1.07
SOLARCOOL (2) SOLARBLUE + SOLARBAN 60 (3) Clear	3	17	9	14	29	0.29	0.27	1.6	0.21	0.18	0.94
SOLARCOOL (2) SOLARBLUE + SUNGATE 600 (3) Clear	6	18	14	15	34	0.33	0.32	1.8	0.30	0.26	0.69
SOLARCOOL (2) SOLARBLUE + SUNGATE 500 (3) Clear	6	18	15	15	36	0.35	0.35	2.0	0.32	0.27	0.67
SOLARCOOL (2) SOLARBLUE + Clear	7	20	19	15	38	0.47	0.50	2.8	0.37	0.32	0.63
<b>SOLARCOOL PACIFICA GLASS</b>											
SOLARCOOL (2) PACIFICA + SOLARBAN 70XL (3)	1	12	4	10	27	0.28	0.26	1.5	0.15	0.13	0.92
SOLARCOOL (2) PACIFICA + SOLARBAN 60 (3) Clear	2	13	6	10	29	0.29	0.27	1.6	0.17	0.15	0.87
SOLARCOOL (2) PACIFICA + SUNGATE 600 (3) Clear	3	13	8	10	34	0.33	0.32	1.8	0.22	0.19	0.68
SOLARCOOL (2) PACIFICA + SUNGATE 500 (3) Clear	3	14	9	10	36	0.35	0.35	2.0	0.23	0.20	0.70
SOLARCOOL (2) PACIFICA + Clear	4	15	11	10	38	0.47	0.50	2.8	0.29	0.25	0.60

All performance data calculated using LBNL Window 6.3 software and represents center of glass performance data. European U-values are calculated using WinDat version 3.0.1 software. For detailed information on the methodologies used to calculate the aesthetic and performance values in this table, please visit [www.ppgideascape.com](http://www.ppgideascape.com) or request our Architectural Glass Catalog.

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