



Vistacool® Subtly Reflective and Solarcool® Reflective Glasses



Aesthetic Description

PPG 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 tinted glass color while adding an understated, soft reflectivity.

Introduced in 1972, **Solarcool®** reflective glass coating can be applied to either the second or first surface for dramatically different aesthetics on blue, green, gray and bronze tinted glasses by PPG. 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 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.ppgideascales.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 ²			Reflectance ²		U-Value ³ NFRC (BTU/hr•ft ² F)		European U-Value ⁴ EN 673 (W/m ² •C)	Shading Coeffi- cient ⁵	Solar Heat Gain Coeffi- cient ⁶	Light to Solar Gain (LSG) ⁷
			Ultra- violet %	Visible %	Total Solar Energy %	Exterior Light %	Interior Light %	Winter Night- time	Summer Day- time				
Monolithic (6mm)													
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
Insulating Vision Unit Performance Comparisons 1-inch (25mm) units with 1/2-inch (13mm) airspace and two 1/4-inch (6mm) lites													
VISTACOO AZURIA GLASS													
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 + Clear			29	47	22	21	32	0.47	0.50	1.6	0.39	0.34	1.38
VISTACOO PACIFICA GLASS													
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 + Clear			10	29	19	11	31	0.47	0.50	2.8	0.37	0.32	0.91
SOLARCOOL SOLARGRAY GLASS													
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 + Clear			6	16	18	11	38	0.47	0.50	2.8	0.36	0.32	0.50
SOLARCOOL SOLARBRONZE GLASS													
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 + Clear			6	19	21	14	38	0.47	0.50	2.8	0.40	0.34	0.56
SOLARCOOL SOLEXIA GLASS													
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 + Clear			7	27	19	24	38	0.47	0.50	2.8	0.36	0.31	0.87
SOLARCOOL AZURIA GLASS													
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 + Clear			10	24	12	20	38	0.47	0.50	2.8	0.29	0.25	0.96
SOLARCOOL SOLARBLUE GLASS													
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 + Clear			7	20	19	15	38	0.47	0.50	2.8	0.37	0.32	0.63
SOLARCOOL PACIFICA GLASS													
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 + Clear			4	15	11	10	38	0.47	0.50	2.8	0.29	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 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.ppgideasces.com or request our Architectural Glass Catalog.

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