

Aesthetic Description

The **Vistacool™** collection of architectural glasses by PPG offers lustrous color and subtle reflectivity unlike any other in the industry. Their distinguishing characteristic is a proprietary color-neutral, second-surface coating that enriches the color of the tinted glass substrate, yet still transmits higher levels of visible light than conventional reflective glasses. The result is a striking aesthetic that represents an entirely new category of products on the architectural glass spectrum.

Vistacool glasses offer extraordinary aesthetic and performance versatility. The proprietary coating can be applied to **Azuria™**, **Caribia®** and **Pacifica™** glass substrates from the **Oceans of Color®** collection to create an expansive palette of blue and aqua tints, or it can be coated to **Solargray®** glass for a classic gray look. Paired with transparent **Solarban® 70XL**, **Solarban 60** or **Sungate® 500** low-e glasses in a one-inch insulating glass unit, **Vistacool**-coated glasses can achieve Light to Solar Gain (LSG) ratios as high as 1.66 and, even more remarkably, Visible Light Transmittance (VLT) of up to 44 percent.

Vistacool™ Glasses with Solarban® Solar Control Low-E and Sungate® 500 Low-E Glasses

- **Vistacool Azuria** glass offers an exceptionally rich and soothing aqua-blue appearance, together with excellent VLT of 44% when teamed with **Sungate 500** glass in a standard one-inch insulating glass unit. With a Solar Heat Gain Coefficient (SHGC) of 0.29, this combination produces an LSG ratio of 1.53, among the highest of any reflective glass on the market.
- **Vistacool Caribia** glass saturates the popular aqua-green tint of **Caribia** glass with an added dimension of warmth and luster. When united with **Solarban 60** glass in a one-inch insulating glass unit, **Vistacool Caribia** glass offers a rare combination of visible light transmittance and solar control, which is highlighted in its 1.66 LSG ratio.
- **Vistacool Pacifica** glass offers a richer blue appearance than **Vistacool Azuria**, along with a SHGC of 0.19 when joined in a one-inch insulating glass unit with **Solarban 70XL** glass. This exceptional solar control, the best of all the **Vistacool** glasses, combines with a VLT of 24% to generate a nearly *spectrally selective* LSG ratio of 1.24.



Sky Las Vegas

Location: Las Vegas, NV

Product: Vistacool™ Azuria™/Solarban® 60 Glass

Architect: Klai Juba Architects

Glazing Contractor: Oldcastle BuildingEnvelope™

Glazing Fabricator: Heinaman Contract Glazing

- **Vistacool Solargray®** features an elegant light gray tint that delivers relatively high levels of interior brightness together with exceptional solar control characteristics. Combined with **Solarban 70XL** glass in a one-inch insulating glass unit, **Vistacool Solargray** provides VLT of 25% and a SHGC of 0.20, which yields an LSG ratio of 1.24 that is just shy of being *spectrally selective*.

Vistacool™ Glasses with Solarban® z50 Optiblu Glass

Even greater appearance options abound when the **Vistacool** coating is added to **Azuria**, **Caribia**, **Pacifica** or **Solargray** glass, then assembled with **Solarban z50 Optiblu** glass in a one-inch insulating glass unit. These deeply saturated tints, which generate LSG ratios of up to 1.20, can transmit up to 30 percent of visible light, which is significantly higher than similar glasses that project a dark exterior aesthetic.

Vistacool™
Azuria™
Glass

Vistacool™
Caribia®
Glass

Vistacool™
Solargray®
Glass

NEW!
Vistacool™
Pacifica™
Glass

Vistacool™

GLASSES

Subtly Reflective, Color-Enriched Glass

Fabrication and Availability

Vistacool reflective glasses provide maximum processing flexibility and can be easily laminated, tempered or heat-strengthened to satisfy increased strength or safety glazing requirements. **Vistacool** glass is available from nearly 100 glass fabrication locations throughout the U.S. and Canada, and international representatives in 25 countries.



Additional Resources

EcoLogical Building Solutions from PPG encompass a number of environmentally sustainable architectural glass products, including **Vistacool** glass. For more information or to obtain samples of any PPG glass product, call 1-888-PPG-IDEA (774-4332), or visit www.ppgideascesapes.com. All PPG architectural glass is Cradle to Cradle Certified.™



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One-Inch Insulating Glass Unit Comparisons Using 1/4" (6mm) Vistacool™ Glass

Insulating Vision Unit Performance Comparisons 1-inch (25mm) units with 1/2-inch (13mm) airspace and two 1/4-inch (6mm) lites; interior lite clear unless otherwise noted											
Glass Type	Transmittance			Reflectance		U-Value (Imperial)		European U-Value	Shading Coefficient	Solar Heat Gain Coefficient	Light to Solar Gain (LSG)
	Ultra-violet %	Visible %	Total Solar Energy %	Visible Light %	Total Solar Energy %	Winter Night-time	Summer Day-time				
Coated											
VISTACOO™ with SUNGATE® 500 Low-E (3)											
VISTACOO (2) AZURIA + SUNGATE 500 (3) Clear	24	44	19	22	11	0.35	0.35	1.96	0.34	0.29	1.53
VISTACOO (2) CARIBIA + SUNGATE 500 (3) Clear	14	44	19	22	11	0.35	0.35	1.96	0.34	0.29	1.51
VISTACOO (2) PACIFICA + SUNGATE 500 (3) Clear	9	27	16	11	8	0.35	0.35	1.96	0.31	0.27	1.03
VISTACOO (2) SOLARGRAY + SUNGATE 500 (3) Clear	14	29	23	12	10	0.35	0.35	1.96	0.41	0.35	0.83
VISTACOO™ with SOLARBAN® 60 Solar Control Low-E (3)											
VISTACOO (2) AZURIA + SOLARBAN 60 (3) Clear	11	42	16	20	11	0.29	0.27	1.55	0.30	0.26	1.61
VISTACOO (2) CARIBIA + SOLARBAN 60 (3) Clear	7	42	16	20	11	0.29	0.27	1.55	0.29	0.25	1.66
VISTACOO (2) PACIFICA + SOLARBAN 60 (3) Clear	4	26	12	11	9	0.29	0.27	1.55	0.24	0.21	1.23
VISTACOO (2) SOLARGRAY + SOLARBAN 60 (3) Clear	7	27	14	11	15	0.29	0.27	1.55	0.28	0.24	1.13
VISTACOO™ with SOLARBAN® z50 Solar Control Low-E (3)											
VISTACOO (2) AZURIA + SOLARBAN z50 (3) OPTIBLUE	9	30	12	20	11	0.29	0.27	1.55	0.29	0.25	1.20
VISTACOO (2) CARIBIA + SOLARBAN z50 (3) OPTIBLUE	5	30	12	19	11	0.29	0.27	1.55	0.29	0.25	1.20
VISTACOO (2) PACIFICA + SOLARBAN z50 (3) OPTIBLUE	4	19	9	11	9	0.29	0.27	1.55	0.24	0.21	0.91
VISTACOO (2) SOLARGRAY + SOLARBAN z50 (3) OPTIBLUE	5	20	11	11	15	0.29	0.27	1.55	0.27	0.24	0.82
VISTACOO™ with SOLARBAN® 70XL Solar Control Low-E (3)											
VISTACOO (2) AZURIA + SOLARBAN 70XL (3)	4	38	14	21	12	0.28	0.26	1.50	0.27	0.24	1.59
VISTACOO (2) CARIBIA + SOLARBAN 70XL (3)	2	38	13	20	11	0.28	0.26	1.50	0.27	0.23	1.65
VISTACOO (2) PACIFICA + SOLARBAN 70XL (3)	1	24	9	11	9	0.28	0.26	1.50	0.22	0.19	1.24
VISTACOO (2) SOLARGRAY + SOLARBAN 70XL (3)	2	25	10	11	17	0.28	0.26	1.50	0.23	0.20	1.24

All performance data calculated using LBNL Window 5.2 software, except European U-Value, which is 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.ppgideascesapes.com or request our Architectural Glass Catalog.

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