

Aesthetic Description

Vistacool™ Caribia® glass is a new architectural glass that offers a rich, subtly reflective aqua-green tint together with high levels of visible light transmittance not typically associated with traditional reflective glass.

The product is part of a new line of **Vistacool™** glasses from PPG, which feature a color-neutral, second-surface coating that enriches the color of the glass substrate, yet still transmits a high percentage of natural light. The result is an exceptional collection of architectural glasses that fulfill architects' demand for a softer, more subtle reflectivity along with the high levels of light transmission required for enhanced interior comfort and lighting-related energy savings.

With the popular **Caribia®** glass as its substrate, **Vistacool Caribia** glass imparts a richly saturated aqua-green sheen that creates a brightly neutral appearance on the interior side of the glass and a crisp, meticulously pristine aesthetic outside of the structure.

The unique place of **Vistacool Caribia** glass on the architectural glass spectrum is best demonstrated by comparing its relationship of Transmittance and Reflectance to other reflective glasses. This is illustrated in the chart (right) which shows that, while levels of reflectivity vary greatly among reflective glasses, only **Vistacool Azuria™** glass has the high visible light transmittance of **Vistacool Caribia** glass. This unique combination of visual and performance characteristics makes **Vistacool Caribia** glass distinctly different from any other reflective architectural glass on the market.

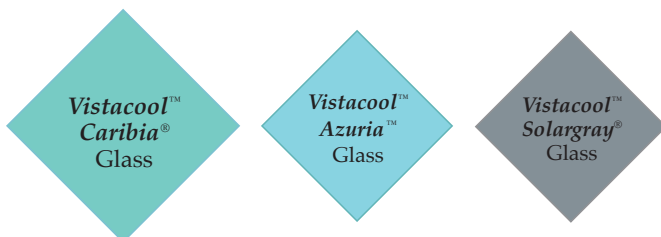
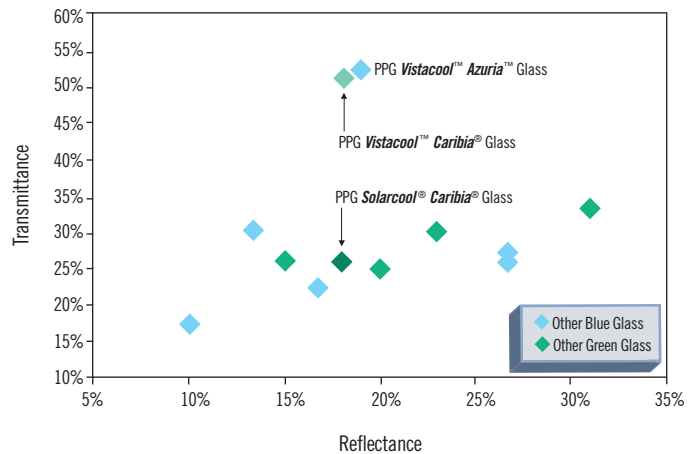
Performance Characteristics

Architects can extend the range of performance options associated with **Vistacool (2) Caribia** by combining it with **Sungate® 500** Low-E glass, or **Solarban® 60** and **Solarban® 70XL** Solar Control Low-E glasses. In a one-inch insulating glass unit, **Vistacool Caribia** and **Sungate 500** produce a Solar Heat Gain Coefficient (SHGC) of 0.29 while maintaining Visible Light Transmittance of 44 percent. With **Solarban 60** glass, the SHGC is a low 0.29. With **Solarban 70XL** glass, it is further reduced to 0.27. Visible Light Transmittance is maintained at 41 and 37 percent, respectively.



Vistacool (2) Caribia glass from PPG offers an unprecedented combination of subtle reflectivity and visible light transmittance, along with an exceptionally rich aqua-green sheen. The Vistacool coating not only transmits high levels of daylight, but due to its color neutrality, also serves to amplify and enrich the tint of the Caribia glass substrate underneath, creating a crisp, clean, pristine exterior aesthetic.

**Relationship of Transmittance and Reflectance
 Current Reflective (6mm) Tinted Glass Products**



Vistacool™

CARIBIA®

Subtly Reflective, Color-Enriched Glass



Vistacool™ Caribia® glass (right) features a new softly reflective, color-neutral coating technology from PPG that enriches color, but without the mirror-like finish of traditional reflective glasses such as Solarcool Caribia glass (left). In addition to saturating the aqua-green color of Caribia glass, the Vistacool coating also allows Vistacool Caribia to transmit higher percentages of day-light and appear less reflective than other reflective coated glass products.

Fabrication

Vistacool Caribia glass provides maximum processing flexibility and can be easily laminated, tempered or heat-strengthened to satisfy increased strength or safety glazing requirements. With its pyrolytic or “hard coat” coating, **Vistacool Caribia** glass is durable and readily available for rapid job-site delivery from nearly 100 glass fabrication locations throughout the U.S. and Canada. It is also available through international representatives in 25 countries.

Additional Resources

Vistacool Caribia glass is just one of the **EcoLogical Building Solutions™** from PPG. For more information, or to obtain samples of **Vistacool Caribia** glass, call 1-888-PPG-IDEA or visit www.ppgideascales.com.



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Vistacool™ Caribia® Glass Performance — Commercial Insulating Glass Unit and Monolithic Comparisons

Glass Type	Transmittance			Reflectance		U-Value (Imperial)		K-Value (Metric)		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	Winter Night-time	Summer Day-time			
Monolithic (6mm)												
VISTACOOL CARIBIA	20	52	26	19	9	1.02	0.92	5.80	5.23	0.53	0.45	1.15
Insulating Vision Unit Performance 1-inch (25mm) units with 1/2-inch (13mm) air space and two 1/4-inch lites; interior lite clear												
VISTACOOL CARIBIA	39	47	22	21	10	0.47	0.50	2.67	2.84	0.39	0.34	1.38
SUNGATE® 500 Low-E Glass (3)												
VISTACOOL CARIBIA + LOW-E	34	44	19	22	11	0.35	0.35	1.99	1.99	0.34	0.29	1.51
SOLARBAN® 60 Solar Control Low-E Glass (3)												
VISTACOOL CARIBIA + LOW-E	29	42	15	20	11	0.29	0.27	1.65	1.53	0.29	0.25	1.66
SOLARBAN® 70XL Solar Control Low-E Glass (3)												
VISTACOOL CARIBIA + LOW-E	18	37	13	20	12	0.29	0.27	1.65	1.53	0.27	0.24	1.54

Notes: All IG data for 1/2"-air space with air (not argon). **Vistacool** coated glass is recommended for use only on the 2nd, 3rd or 4th surface of standard architectural insulating glass applications. When used in architectural applications as a monolithic lite, the **Vistacool** coating is to be glazed to the interior of the structure, 2nd surface.

Performance data calculated using LBL Window 5.2. For detailed information on the methodologies used to calculate the aesthetic and performance values in this table, please visit www.ppgglazing.com or request our Architectural Glass Catalog.

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Printed in U.S.A.
7101 2/06 5M

