

**Caribia®** Glass is one of the original ocean-inspired tints featured in PPG's **Oceans of Color®** collection of nautically-inspired tinted architectural glasses.

### Aesthetic Description

**Caribia** glass's aqua-green tint is as strikingly beautiful as the sea from which it draws its name. Though inspired by the sea, this unique tropical green and ocean blue tint works with a range of different building materials to create structures of lasting beauty.

**Caribia** glass was developed in response to an extensive color/tint survey of design architects. Their top glass color choice led PPG to create this highly unique aqua-green spectrally selective glass.

### Performance Options

Spectrally selective\* **Caribia** glass is designed to combine excellent visible light transmittance with reduced infrared transmittance, thereby reducing solar heat loads. **Caribia** glass can be combined in an insulating glass unit with any PPG low-e coating, and is available with select **Solarban®** glass coatings on the second surface.

#### **Caribia® Glass (6mm Monolithic)**

- Exceptional Visible Light Transmittance (VLT): 68%
- Good Solar Heat Gain Coefficient (SHGC): 0.52
- Excellent Light to Solar Gain (LSG) ratio: 1.32

#### **Caribia® Glass (1" I.G. Unit, 6mm)**

- Outstanding Visible Light Transmittance (VLT): 60%
- Excellent Solar Heat Gain Coefficient (SHGC): 0.39
- Outstanding Light to Solar Gain (LSG) ratio: 1.55

#### **Caribia® and Sungate® 500 (3) Low-E Glass (1" I.G. Unit, 6mm)**

- Excellent Visible Light Transmittance (VLT): 56%
- Excellent Solar Heat Gain Coefficient (SHGC): 0.34
- Superior Light to Solar Gain (LSG) ratio: 1.65

#### **Caribia® and Solarban® 70XL (3) Solar Control Low-E Glass (1" I.G. Unit, 6mm)**

- Good Visible Light Transmittance (VLT): 49%
- Outstanding Solar Heat Gain Coefficient (SHGC): 0.28
- Superior Light to Solar Gain (LSG) ratio: 1.75



*The Tower (formerly Bank One Tower)*

*Location: Fort Worth, TX*

*Product: Caribia® Glass*

*Architect: Corgan Associates Inc*

*Glazing Contractor: Trainor Glass Company – Fulton Windows Inc.*

*Owner/Developer: TLC Realty*

#### **Caribia® and Solarban® z50 (3) Solar Control Low-E Glass (1" I.G. Unit, 6mm)**

- Good Visible Light Transmittance (VLT): 0.39%
- Excellent Solar Heat Gain Coefficient (SHGC): 0.30
- Excellent Light to Solar Gain (LSG) ratio: 1.29

\* The U.S. Department of Energy defines spectrally selective as glass with a Light to Solar Gain ratio (LSG) of 1.25 or higher.

**Caribia® and Solarban® 60 (3) Solar Control Low-E Glass (1" I.G. Unit, 6mm)**

Combining these two PPG high-performance products provides ultimate solar heat control while maintaining desirable high visible light transmittance.

- Excellent Visible Light Transmittance (VLT): 54%
- Excellent Solar Heat Gain Coefficient (SHGC): 0.31
- Superior Light to Solar Gain (LSG) ratio: 1.74

**Fabrication and Availability**

**Caribia** glass provides maximum processing flexibility and can be easily laminated, tempered or heat-strengthened to satisfy increased strength or safety glazing requirements.

**Caribia** glass with second-surface **Solarban 70XL** and **Solarban 60** coatings is available exclusively through the PPG Certified Fabricator Network. **Caribia** glass is also readily available without second-surface **Solarban** coatings

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 **Caribia** glass with **Vistacool**<sup>™</sup>, **Solarban** and **Sungate** coatings. For more information or to obtain samples of any PPG glass product, call 1-888-PPG-IDEA (774-4332), or visit [www.ppgideasces.com](http://www.ppgideasces.com). All PPG architectural glass is Cradle to Cradle Certified.<sup>CM</sup>

**PPG IdeaScapes.™ Integrated products, people and services to inspire your design and color vision.**

**Caribia® Glass Performance — Commercial Insulating Glass Unit and Monolithic Comparisons Using 1/4" (6mm) Glass**

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				
<b>Insulating Vision Unit Performance Comparisons</b> 1-inch (25mm) units with 1/2-inch (13mm) airspace and two 1/4-inch (6mm) lites; interior lite clear											
<b>CARIBIA® Glass</b>											
CARIBIA + Clear	20	60	28	11	7	0.47	0.50	2.81	0.45	0.39	1.55
SOLARBAN 70XL (2) CARIBIA + Clear*	2	48	16	9	7	0.28	0.26	1.50	0.27	0.23	2.07
SOLARBAN 60 (2) CARIBIA + Clear	8	54	20	8	4	0.29	0.27	1.55	0.31	0.27	1.99
CARIBIA + SOLARBAN 70XL (3)*	2	49	17	9	8	0.28	0.26	1.50	0.32	0.28	1.75
CARIBIA + SOLARBAN 60 (3) Clear	8	54	20	9	7	0.29	0.27	1.55	0.35	0.31	1.74
CARIBIA + SOLARBAN z50 (3) OPTIBLUE	6	39	15	8	7	0.29	0.27	1.55	0.34	0.30	1.29
CARIBIA + SUNGATE 500 (3) Clear	17	56	24	12	7	0.35	0.35	1.96	0.40	0.34	1.65
<b>VISTACOOl™ (Subtly Reflective) and SOLARCOOL® (Reflective) with CARIBIA Glass</b>											
VISTACOOl (2) CARIBIA + Clear	16	47	22	21	10	0.47	0.50	2.81	0.39	0.34	1.38
VISTACOOl (2) CARIBIA + SOLARBAN 70XL (3)*	2	38	13	20	11	0.28	0.26	1.50	0.27	0.23	1.65
VISTACOOl (2) CARIBIA + SOLARBAN 60 (3) Clear	7	42	16	20	11	0.29	0.27	1.55	0.29	0.25	1.66
VISTACOOl (2) CARIBIA + SUNGATE 500 (3) Clear	14	44	19	22	11	0.35	0.35	1.96	0.34	0.29	1.51
VISTACOOl (2) CARIBIA + SOLARBAN z50 (3) OPTIBLUE	5	30	12	20	11	0.29	0.27	1.55	0.29	0.25	1.20
SOLARCOOL (2) CARIBIA + Clear	6	24	12	19	9	0.48	0.50	2.82	0.30	0.25	0.94
SOLARCOOL (2) CARIBIA + SOLARBAN 70XL (3)*	1	19	6	19	10	0.28	0.26	1.50	0.18	0.15	1.27
SOLARCOOL (2) CARIBIA + SOLARBAN 60 (3) Clear	2	21	8	19	10	0.29	0.27	1.55	0.19	0.16	1.30
SOLARCOOL (2) CARIBIA + SUNGATE 500 (3) Clear	5	22	10	19	10	0.35	0.35	1.96	0.24	0.20	1.11

\* **Solarban 70XL** for annealed applications is applied to **Starphire** glass; heat treated applications will require either clear or **Starphire** glass depending on manufacturing process.

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.ppgideasces.com](http://www.ppgideasces.com) or request our Architectural Glass Catalog.

© 2009 PPG Industries, Inc. All rights reserved. **Atlantica, Azuria, Azurlite, Caribia, Graylite, IdeaScapes, Oceans of Color, Optigray, Pacifica, Solarban, Solarblue, Solarbronze, Solarcool, Solargray, Solexia, Starphire, Sungate, Vistacool**, PPG, the PPG logo and the PPG Certified Fabricator Network logo are trademarks and EcoLogical Building Solutions is a service mark owned by PPG Industries, Inc. Cradle to Cradle is a certification mark for MBDC.

