



# Blue and Green Tinted Glasses



## *Omni Dallas Convention Center Hotel*

*Location: Dallas, TX*

*Products: Pacifica®, Solarban® z50, Solarban® 70XL Glasses*

*Architect: BOKA Powell Architects; 5GStudio*

*Glazing Contractor: Goldfinch Brothers, Inc.*

*Glass Fabricator: JE Berkowitz, LP*

*Owner/Developer: City of Dallas/Matthews Southwest*

## Aesthetic Description

Architects have relied on blue and green tinted glasses for decades to give buildings a distinctive look and to reduce heat gain and glare. PPG offers a collection of blue and green tints that can be paired with its exceptional range of advanced low-e and reflective coatings to offer architects more performance and aesthetic options than ever.

In addition to light-green **Solexia®** glass, which has been an industry mainstay since the 1930s, PPG's nature-inspired color palette includes aqua-blue **Azuria®** glass, emerald-green **Atlantica®** glass, sky-blue **Solarblue®** glass and rich-blue **Pacifica®** glass. Using these tints with reflective **Solarcool®** and subtly-reflective **Vistacool®** glass coatings further multiplies the color selection.

## Performance Characteristics

Blue and green tinted glasses are available with **Solarban®** solar control, low-e glasses or combined in an insulating glass unit (IGU) with **Sungate®** passive low-e glasses to fulfill a wide range of performance demands, whether the goal is to maximize light transmittance, increase privacy or improve solar control performance.

## Fabrication and Availability

Blue and green tinted glasses, as well as **Sungate®** and **Solarban®** low-e glasses, provide maximum processing flexibility and can be laminated, tempered or heat-strengthened to satisfy increased strength or safety glazing requirements. PPG tinted glass and **Sungate®** glasses are available from hundreds of PPG-qualified glass fabricators in the U.S., Canada and throughout the world. Tinted glasses with **Solarban®** glasses are available through the **PPG Certified Fabricator® Network**.



## Additional Resources

**Ecological Solutions from PPG™**



encompass a number of environmentally sustainable architectural glass products, including uncoated blue and green tinted glasses, as well as those with **Solarcool®**, **Vistacool®**, **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](http://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.

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>											
PACIFICA	15	42	27	5	5	1.02	0.93	5.8	0.56	0.49	0.86
SOLARBLUE	31	56	47	6	6	1.02	0.93	5.8	0.71	0.61	0.92
AZURIA	42	68	32	7	7	1.02	0.93	5.8	0.59	0.52	1.31
SOLEXIA	31	77	47	8	8	1.02	0.93	5.8	0.71	0.62	1.24
ATLANTICA	16	67	34	7	7	1.02	0.93	5.8	0.61	0.53	1.26
<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>PACIFICA GLASS</b>											
SOLARBAN 70XL (2) PACIFICA + Clear	2	32	12	6	12	0.28	0.26	1.5	0.22	0.19	1.68
SOLARBAN 67 (2) PACIFICA + Clear	3	26	11	8	15	0.29	0.27	1.6	0.21	0.19	1.37
SOLARBAN 60 (2) PACIFICA + Clear	5	34	15	6	10	0.29	0.27	1.6	0.26	0.22	1.55
SOLARBAN R100 (2) PACIFICA + Clear	3	20	9	11	13	0.29	0.27	1.6	0.19	0.16	1.25
PACIFICA + SOLARBAN 70XL (3)	2	31	12	6	10	0.28	0.26	1.5	0.26	0.22	1.41
PACIFICA + SOLARBAN 67 (3) Clear	3	26	11	7	18	0.29	0.27	1.6	0.27	0.23	1.13
PACIFICA + SOLARBAN 60 (3) Clear	5	34	15	6	9	0.29	0.27	1.6	0.29	0.25	1.36
<b>SOLARBLUE GLASS</b>											
SOLARBAN 70XL (2) SOLARBLUE + Clear	4	42	17	8	12	0.28	0.26	1.5	0.26	0.23	1.83
SOLARBAN 67 (2) SOLARBLUE + Clear	6	34	16	10	15	0.29	0.27	1.6	0.26	0.22	1.55
SOLARBAN 60 (2) SOLARBLUE + Clear	10	45	21	7	11	0.29	0.27	1.6	0.33	0.28	1.61
SOLARBAN R100 (2) SOLARBLUE + Clear	6	26	12	15	13	0.29	0.27	1.6	0.22	0.19	1.37
SOLARBLUE + SOLARBAN 70XL (3)	3	40	16	8	11	0.28	0.26	1.5	0.32	0.27	1.48
SOLARBLUE + SOLARBAN 67 (3) Clear	6	34	16	9	18	0.29	0.27	1.6	0.34	0.30	1.13
SOLARBLUE + SOLARBAN 60 (3) Clear	10	45	21	7	9	0.29	0.27	1.6	0.38	0.33	1.36
<b>AZURIA GLASS</b>											
SOLARBAN 70XL (2) AZURIA + Clear	5	52	18	9	12	0.28	0.26	1.5	0.29	0.25	2.08
SOLARBAN 67 (2) AZURIA + Clear	8	42	16	13	16	0.29	0.27	1.6	0.26	0.23	1.83
SOLARBAN 60 (2) AZURIA + Clear	13	54	21	8	11	0.29	0.27	1.6	0.32	0.28	1.93
SOLARBAN R100 (2) AZURIA + Clear	8	32	12	21	13	0.29	0.27	1.6	0.22	0.19	1.68
AZURIA + SOLARBAN 70XL (3)	4	49	17	9	11	0.28	0.26	1.5	0.33	0.29	1.69
AZURIA + SOLARBAN 67 (3) Clear	8	42	16	11	18	0.29	0.27	1.6	0.33	0.29	1.45
AZURIA + SOLARBAN 60 (3) Clear	13	54	21	9	10	0.29	0.27	1.6	0.36	0.31	1.74
<b>SOLEXIA GLASS</b>											
SOLARBAN 70XL (2) SOLEXIA + Clear	4	58	21	10	13	0.28	0.26	1.5	0.31	0.27	2.15
SOLARBAN 67 (2) SOLEXIA + Clear	6	47	19	16	16	0.29	0.27	1.6	0.29	0.25	1.88
SOLARBAN 60 (2) SOLEXIA + Clear	10	61	25	9	12	0.29	0.27	1.6	0.37	0.32	1.91
SOLARBAN R100 (2) SOLEXIA + Clear	6	36	15	25	13	0.29	0.27	1.6	0.24	0.21	1.71
SOLEXIA + SOLARBAN 70XL (3)	3	56	20	11	12	0.28	0.26	1.5	0.37	0.32	1.75
SOLEXIA + SOLARBAN 60 (3) Clear	10	61	25	10	10	0.29	0.27	1.6	0.42	0.37	1.65
<b>ATLANTICA GLASS</b>											
SOLARBAN 70XL (2) ATLANTICA + Clear	2	51	17	9	12	0.28	0.26	1.5	0.28	0.24	2.13
SOLARBAN 67 (2) ATLANTICA + Clear	3	41	15	13	16	0.29	0.27	1.6	0.26	0.22	1.86
SOLARBAN 60 (2) ATLANTICA + Clear	5	53	20	8	11	0.29	0.27	1.6	0.32	0.27	1.96
SOLARBAN R100 (2) ATLANTICA + Clear	3	32	12	20	13	0.29	0.27	1.6	0.22	0.19	1.68
ATLANTICA + SOLARBAN 70XL (3)	2	49	17	10	11	0.28	0.26	1.5	0.32	0.28	1.75
ATLANTICA + SOLARBAN 67 (3) Clear	3	41	15	11	18	0.29	0.27	1.6	0.33	0.29	1.41
ATLANTICA + SOLARBAN 60 (3) Clear	5	53	20	9	10	0.29	0.27	1.6	0.36	0.31	1.71

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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Printed in U.S.A.  
7159 12/14

