Blue and Green Tinted Glasses

PPG IdeaScapes
Glass • Coatings • Paint

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**.

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.ppgideascapes.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[2]			Reflectance[2]		U-Value[3] NFRC (BTU/hr•ft²°F)		European U-Value[4] EN 673 (W/m²°C)	Shading Coefficient[5]	Solar Heat Gain Coefficient[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)											
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
Insulating Vision Unit Performance Comparisons 1-inch (25mm) units with 1/2-inch (13mm) airspace and two 1/4-inch (6mm) lites											
PACIFICA GLASS											
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
PACIFICA + SUNGATE 600 (3) Clear	10	34	18	7	14	0.33	0.32	1.8	0.34	0.30	1.13
PACIFICA + SUNGATE 500 (3) Clear	10	35	19	7	14	0.35	0.35	2.0	0.35	0.31	1.13
SOLARBLUE GLASS											
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
SOLARBLUE + SUNGATE 600 (3) Clear	20	45	29	9	14	0.33	0.32	1.8	0.50	0.43	1.05
SOLARBLUE + SUNGATE 500 (3) Clear	21	46	32	10	15	0.35	0.35	2.0	0.51	0.44	1.05
AZURIA GLASS											
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
AZURIA + SUNGATE 600 (3) Clear	26	55	23	12	15	0.33	0.32	1.8	0.39	0.34	1.62
AZURIA + SUNGATE 500 (3) Clear	29	57	24	12	15	0.35	0.35	2.0	0.40	0.34	1.68
SOLEXIA GLASS											
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
SOLEXIA + SUNGATE 600 (3) Clear	20	62	31	14	15	0.33	0.32	1.8	0.51	0.44	1.41
SOLEXIA + SUNGATE 500 (3) Clear	21	64	33	14	16	0.35	0.35	2.0	0.51	0.44	1.42
ATLANTICA GLASS											
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
ATLANTICA + SUNGATE 600 (3) Clear	10	54	23	12	15	0.33	0.32	1.8	0.40	0.35	1.54
ATLANTICA + SUNGATE 500 (3) Clear	11	56	25	12	15	0.35	0.35	2.0	0.41	0.36	1.56

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.ppgideascapes.com or request our Architectural Glass Catalog.

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