



Gray and Bronze Tinted Glasses



Victory Building

Location: Little Rock, AK

Products: Solargray®/Solarban® 60 Glass

Architect: Cromwell Architects Engineers

Glazing Contractor: Ace Glass

Glass Fabricator: Trulite Glass and Aluminum Solutions

Aesthetic Description

Gray and bronze tinted glasses have long been popular with architects because of their ability to harmonize with other building materials and add sleekness to building profiles. PPG offers three distinct gray tints with varying levels of visible light transmittance (VLT), including ultra-neutral, light-gray **Optigray**® glass, cool-gray **Solargray**® glass and dark-gray **Graylite**® II glass – along with classic **Solarbronze**® glass, which architects have specified for commercial buildings for more than 40 years.

For a broader aesthetic palette, some PPG gray and bronze tinted glasses are available with reflective **Solarcool**® glass coating.

Performance Characteristics

Versatile gray and bronze tinted glasses are available with **Solarban**® solar control, low-e glasses or combined in insulating glass with **Sungate**® passive low-e glasses to fulfill a wide range of performance demands.

Fabrication and Availability

Gray and bronze tinted glasses, as well as **Solarban**® and **Sungate**® low-e glasses, provide maximum processing flexibility and can be easily laminated, tempered or heat-strengthened to satisfy increased strength or safety glazing requirements. Tinted and **Sungate**® glasses are available from hundreds of PPG-qualified glass fabricators in the U.S., Canada and throughout the world. **Solarban**® low-e 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 gray and bronze tinted glasses, and those with **Solarcool®**, **Solarban®** and **Sungate®** glass coatings. For more information, or to obtain samples of any PPG tinted glass product, call **888-PPG-IDEA (774-4332)** or visit www.ppgideascesapes.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•ft ² •F)		European U-Value ⁴ EN 673 (W/m ² •°C)	Shading Coeffi- cient ⁵	Solar Heat Gain Coeffi- cient 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)											
OPTIGRAY	33	63	51	6	6	1.02	0.93	5.2	0.74	0.64	0.98
SOLARGRAY	24	44	42	6	6	1.02	0.93	5.8	0.67	0.58	0.76
SOLARBRONZE	25	53	50	6	6	1.02	0.93	5.8	0.73	0.63	0.84
GRAYLITE II	2	9	8	4	5	1.02	0.93	5.8	0.41	0.36	0.25
Insulating Vision Unit Performance Comparisons 1-inch (25mm) units with 1/2-inch (13mm) airspace and two 1/4-inch (6mm) lites											
OPTIGRAY GLASS											
SOLARBAN 70XL (2) OPTIGRAY + Clear	4	47	18	8	12	0.28	0.26	1.5	0.28	0.24	1.96
SOLARBAN 67 (2) OPTIGRAY + Clear	6	38	17	12	15	0.29	0.27	1.5	0.27	0.24	1.58
SOLARBAN 60 (2) OPTIGRAY + Clear	10	50	23	8	11	0.29	0.27	1.5	0.35	0.30	1.67
SOLARBAN R100 (2) OPTIGRAY + Clear	6	29	13	18	13	0.29	0.27	1.5	0.22	0.20	1.45
OPTIGRAY + SOLARBAN 70XL (3)	3	45	17	9	11	0.28	0.26	1.5	0.33	0.29	1.55
OPTIGRAY + SOLARBAN 67 (3) Clear	6	38	17	10	18	0.29	0.27	1.5	0.36	0.32	1.19
OPTIGRAY + SOLARBAN 60 (3) Clear	10	50	23	8	9	0.29	0.27	1.5	0.40	0.35	1.43
OPTIGRAY + SUNGATE 400 (3) Clear	16	54	34	9	12	0.32	0.31	1.8	0.52	0.46	1.17
SOLARGRAY GLASS											
SOLARBAN 70XL (2) + SOLARGRAY + Clear	3	34	13	6	12	0.28	0.26	1.5	0.23	0.20	1.70
SOLARBAN 67 (2) SOLARGRAY + Clear	5	27	13	8	15	0.29	0.27	1.6	0.23	0.20	1.35
SOLARBAN 60 (2) SOLARGRAY + Clear	8	35	18	6	10	0.29	0.27	1.6	0.29	0.25	1.40
SOLARBAN R100 (2) SOLARGRAY + Clear	5	21	10	12	13	0.29	0.27	1.6	0.19	0.17	1.24
SOLARGRAY + SOLARBAN 70XL (3)	2	32	13	7	11	0.28	0.26	1.5	0.27	0.24	1.33
SOLARGRAY + SOLARBAN 67 (3) Clear	5	27	13	8	18	0.29	0.27	1.6	0.30	0.26	1.04
SOLARGRAY + SOLARBAN 60 (3) Clear	8	35	18	7	9	0.29	0.27	1.6	0.33	0.29	1.21
SOLARGRAY + SUNGATE 400 (3) Clear	12	38	27	7	12	0.32	0.31	1.8	0.44	0.43	0.97
SOLARBRONZE GLASS											
SOLARBAN 70XL (2) SOLARBRONZE + Clear	3	40	15	7	12	0.28	0.26	1.5	0.25	0.21	1.90
SOLARBAN 67 (2) SOLARBRONZE + Clear	5	32	15	10	15	0.29	0.27	1.6	0.25	0.22	1.45
SOLARBAN 60 (2) SOLARBRONZE + Clear	8	42	21	7	11	0.29	0.27	1.6	0.32	0.28	1.50
SOLARBAN R100 (2) SOLARBRONZE + Clear	5	25	11	15	13	0.29	0.27	1.6	0.21	0.18	1.39
SOLARBRONZE + SOLARBAN 70XL (3)	3	38	15	8	11	0.28	0.26	1.5	0.30	0.26	1.46
SOLARBRONZE + SOLARBAN 67 (3) Clear	5	32	15	9	18	0.29	0.27	1.6	0.33	0.29	1.10
SOLARBRONZE + SOLARBAN 60 (3) Clear	8	42	21	7	9	0.29	0.27	1.6	0.37	0.32	1.31
SOLARBRONZE + SUNGATE 400 (3) Clear	12	46	32	8	12	0.32	0.31	1.8	0.50	0.44	1.05
GRAYLITE II GLASS											
GRAYLITE II + SOLARBAN 70XL (3)	0	6	3	4	10	0.28	0.26	1.5	0.13	0.11	0.55
GRAYLITE II + SOLARBAN 67 (3) Clear	0	5	3	4	18	0.29	0.27	1.6	0.14	0.12	0.42
GRAYLITE II + SOLARBAN 60 (3) Clear	1	7	4	4	8	0.29	0.27	1.6	0.14	0.13	0.54
GRAYLITE II + SUNGATE 400 (3) Clear	1	8	5	4	11	0.32	0.31	1.8	0.17	0.15	0.53

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.ppgideascesapes.com or request our Architectural Glass Catalog.

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