

Solarcool® Reflective Glasses



Woodland Towers III
Location: Salt Lake City, UT
Product: Solarcool (2) Gray Glass
Architect: Smith Layton & Associates
Glazing Contractor: Linford Bros.

Earth-Tone Series

Solarcool® Reflective Glasses

From the golden brilliance of a morning sunrise to the dark, brooding elegance of a midnight sky, PPG's family of **Solarcool** reflective coated glasses have inspired architects and designers for more than 30 years with an expressive palette of earth-tone colors.

Solarcool® Reflective Glass Colors of the Earth

Three **Solarcool** offerings have been exceptionally popular because of their bold earthy tones and solar-cooling performance. An extensive variety of appearances and performance attributes can be achieved by applying **Solarcool** reflective coatings to either the interior or exterior surfaces of the Bronze, Gray, or **Graylite**® glass substrate.

Solarcool® Bronze Glass

Solarcool Bronze glass can be glazed with the reflective coating positioned on either the first (#1) or second (#2) surface. The glass has improved performance, higher exterior visible reflectivity and a slight bronze hue when

installed with the coating on the first surface. When installed with the coating on the second surface, **Solarcool** glass has lower exterior visible reflectivity while maintaining the substrate glass color.

Solarcool® Gray Glass

Two options abound with **Solarcool** Gray glass. A strikingly beautiful silvery aesthetic results when the reflective coating is applied to the outboard (#1) surface. A subtly powerful dark gray tint appears when the reflective coating is applied to the inboard (#2) surface.

Solarcool® Graylite® Glass

Many structures are designed to be clad in the stark elegance of a dark, almost black exterior glazing. **Solarcool Graylite** can be used to achieve this effect when the reflective coating is applied to the inboard (#2) surface of the glass. When the reflective coating is glazed to the outboard (#1) surface, **Solarcool Graylite** yields a rich, silvery aesthetic.

Solarcool® Reflective Tinted Glasses by PPG



Solarcool® Reflective Glasses

Fabrication and Availability

Solarcool glass can be heat-strengthened and tempered and is readily available as a standard product. Like other high-performance PPG architectural glasses, **Solarcool** is available from nearly 100 glass fabrication locations throughout the U.S. and Canada.

Additional Resources

For more information, or to obtain samples of **Solarcool** glass, call 1-888-PPG-IDEA, or visit www.ppgglazing.com.

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

Monolithic Glass Comparisons **Solarcool**® Glass, — Earth-Tone Series

Table of Performance Values ¹													
Glass Thickness		Transmittance			Reflectance		U-Value (Imperial)		K-Value (Metric)		Shading Coefficient	Solar Heat Gain Coefficient	Light to Solar Gain (LSG)
Inches	mm	Ultra-violet %	Visible %	Total Solar Energy %	Visible Light %	Total Solar Energy %	Winter Night-time	Summer Day-time	Winter Night-time	Summer Day-time			
Coated													
SOLARCOOL® (1) Bronze Glass													
5/32	4	10	24	33	36	30	1.04	0.94	5.91	5.34	0.51	0.44	0.55
1/4	6	7	21	27	36	30	1.03	0.93	5.85	5.28	0.46	0.40	0.53
SOLARCOOL® (2) Bronze Glass													
5/32	4	10	24	33	17	14	1.04	0.94	5.91	5.34	0.57	0.49	0.49
1/4	6	7	21	27	13	11	1.03	0.93	5.85	5.28	0.53	0.46	0.46
SOLARCOOL® (1) Gray Glass													
1/4	6	7	17	23	36	30	1.03	0.93	5.85	5.28	0.43	0.37	0.46
SOLARCOOL® (2) Gray Glass													
1/4	6	7	17	23	11	9	1.03	0.93	5.85	5.28	0.51	0.44	0.39
SOLARCOOL® (1) GRAYLITE Glass													
1/4	6	2	5	16	36	30	1.03	0.93	5.85	5.28	0.37	0.32	0.16
SOLARCOOL® (2) GRAYLITE Glass													
1/4	6	2	5	16	5	6	1.03	0.93	5.85	5.28	0.46	0.40	0.13

One-Inch Insulating Glass Unit Comparisons Using 1/4" (6mm) **Solarcool**® Glass, Earth-Tone Series

Insulating Vision Unit Performance Comparisons 1-inch (25mm) units with 1/2-inch (13mm) airspace and two 1/4-inch (6mm) lites; interior lite clear													
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				
Coated													
SOLARCOOL® Glass (Reflective)													
SOLARCOOL (1) Bronze	6	18	21	37	31	0.47	0.50	2.67	2.84	0.35	0.31	0.58	
SOLARCOOL (2) Bronze	6	19	21	14	12	0.48	0.50	2.73	2.84	0.40	0.34	0.56	
SOLARCOOL (1) Gray	6	15	17	37	30	0.47	0.50	2.67	2.84	0.32	0.27	0.59	
SOLARCOOL (2) Gray	6	16	18	11	10	0.48	0.50	2.73	2.84	0.36	0.31	0.52	
SOLARCOOL (1) GRAYLITE	2	5	12	36	30	0.47	0.50	2.67	2.84	0.26	0.22	0.23	
SOLARCOOL (2) GRAYLITE	2	5	12	5	6	0.48	0.50	2.73	2.84	0.31	0.26	0.19	
SOLARCOOL® Glass (Reflective) with SUNGATE® 500 Low-E (3)													
SOLARCOOL (2) Bronze + Low-E	5	18	17	14	13	0.35	0.35	1.99	1.99	0.34	0.29	0.62	
SOLARCOOL (2) Gray + Low-E	5	15	14	11	10	0.35	0.35	1.99	1.99	0.30	0.26	0.58	
SOLARCOOL (2) GRAYLITE + Low-E	1	5	9	5	7	0.35	0.35	1.99	1.99	0.25	0.21	0.24	
SOLARCOOL® (Reflective) Glass with SOLARBAN® 60 Solar Control Low-E (3)													
SOLARCOOL (2) Bronze + Low-E	3	17	9	14	18	0.29	0.28	1.65	1.55	0.21	0.18	0.94	
SOLARCOOL (2) Gray + Low-E	2	14	7	11	14	0.29	0.28	1.65	1.55	0.20	0.17	0.88	
SOLARCOOL (2) GRAYLITE + Low-E	1	4	4	5	10	0.29	0.28	1.65	1.55	0.15	0.13	0.33	

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.

© 2005 PPG Industries, Inc. All rights reserved. *Atlantica, Azuria, Azurlite, Caribia, Graylite, Oceans of Color, Optigray, IdeaScapes, Solarban, Solarbronze, Solarcool, Solargray, Solargreen, Solex, Solexia, Starphire, Sungate*, PPG and the PPG logo are trademarks of PPG Industries, Inc.

Printed in U.S.A.
7081 1/05 10M

