

# Solarcool® Reflective Glasses



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

## Nature-Inspired Series

### Solarcool® Reflective Glasses

From golden bronze to slate gray, the PPG family of **Solarcool** reflective coated glasses has inspired architects and designers for more than 35 years with an expressive palette of nature-inspired colors. Now PPG adds sky-blue-tinted **Solarblue**® glass to the collection.

### Colors of the Earth and Sky

**Solarcool** reflective glasses offerings have been popular because of their rich, nature-inspired tones and solar-cooling performance. An extensive variety of appearances and performance attributes can be achieved by applying **Solarcool** reflective coatings to the interior or exterior surface of a bronze, gray, **Graylite**® II or **Solarblue** glass substrate.

### Solarcool® Solarbronze® Glass

**Solarcool Solarbronze** glass can be glazed with the reflective coating on 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 the coating is applied on the second surface, **Solarcool Solarbronze** glass has lower exterior reflectivity and a deeper bronze color.

### Solarcool® Solargray® Glass

Two options abound with **Solarcool Solargray** glass. A striking silver aesthetic results when the reflective coating is applied to the outboard (#1) lite. A subtle 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** glass achieves this effect with the reflective coating applied to the inboard (#2) surface. When the reflective coating is glazed to the outboard (#1) lite, **Solarcool Graylite** yields a rich, silvery aesthetic.

### Solarcool® Solarblue® Glass

The light-sky blue tint of **Solarblue** glass takes on a richly saturated cast when the **Solarcool** coating is applied to the inboard (#2) surface. The glass achieves a sleek, silvery-blue tone when it is glazed on the outboard (#1) lite.

## Solarcool® Reflective Tinted Glasses by PPG



Nature-Inspired Reflective Tints

Nautically Inspired Series Tints

# Solarcool® Reflective Glasses

## Fabrication and Availability

**Solarcool** reflective glasses provide maximum processing flexibility and can be easily laminated, tempered or heat-strengthened to satisfy increased strength or safety glazing requirements. **Solarcool** glass is available from nearly 100 glass fabrication locations throughout the United States and Canada, and international representatives in 25 countries.



## Additional Resources

**Ecological Solutions from PPG™** encompass a number of environmentally sustainable architectural glass products. For more information or to obtain samples of any PPG glass product, call 1-888-PPG-IDEA (774-4332), or visit [www.ppgideascales.com](http://www.ppgideascales.com).



All PPG architectural glass is **Cradle to Cradle Certified™**

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

## One-Inch Insulating Glass Unit Comparisons Using 1/4" (6mm) Solarcool® Glass, Nature-Inspired 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 unless otherwise noted												
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>Coated</b>												
<b>SOLARCOOL® Glass (Reflective)</b>												
SOLARCOOL (1) SOLARBLUE + Clear	7	19	19	37	30	0.47	0.50	2.8	0.33	0.29	0.66	
SOLARCOOL (2) SOLARBLUE + Clear	7	20	19	15	11	0.47	0.50	2.8	0.37	0.32	0.63	
SOLARCOOL (1) SOLARBRONZE + Clear	6	18	21	37	31	0.47	0.50	2.8	0.35	0.31	0.58	
SOLARCOOL (2) SOLARBRONZE + Clear	6	19	21	14	12	0.47	0.50	2.8	0.40	0.34	0.56	
SOLARCOOL (1) SOLARGRAY + Clear	6	15	17	36	30	0.47	0.50	2.8	0.32	0.28	0.54	
SOLARCOOL (2) SOLARGRAY + Clear	6	16	18	11	10	0.47	0.50	2.8	0.36	0.32	0.50	
SOLARCOOL (1) GRAYLITE II + Clear	0	3	3	36	30	0.47	0.50	2.8	0.17	0.15	0.20	
SOLARCOOL (2) GRAYLITE II + Clear	0	3	4	5	5	0.47	0.50	2.8	0.22	0.19	0.16	
<b>SOLARCOOL® Glass (Reflective) with SUNGATE® 500 Low-E (3)</b>												
SOLARCOOL (2) SOLARBLUE + SUNGATE 500 (3) Clear	6	18	15	15	12	0.35	0.35	2.0	0.32	0.27	0.67	
SOLARCOOL (2) SOLARBRONZE + SUNGATE 500 (3) Clear	5	18	17	14	13	0.35	0.35	2.0	0.34	0.29	0.62	
SOLARCOOL (2) SOLARGRAY + SUNGATE 500 (3) Clear	5	15	14	11	10	0.35	0.35	2.0	0.30	0.26	0.58	
SOLARCOOL (2) GRAYLITE II + SUNGATE 500 (3) Clear	0	3	3	5	5	0.35	0.35	2.0	0.16	0.14	0.21	
<b>SOLARCOOL® Glass (Reflective) with SOLARBAN® 60 Solar Control Low-E (3)</b>												
SOLARCOOL (2) SOLARBLUE + SOLARBAN 60 (3) Clear	3	17	9	14	15	0.29	0.27	1.6	0.21	0.18	0.94	
SOLARCOOL (2) SOLARBRONZE + SOLARBAN 60 (3) Clear	2	17	9	14	18	0.29	0.27	1.6	0.21	0.18	0.94	
SOLARCOOL (2) SOLARGRAY + SOLARBAN 60 (3) Clear	2	14	8	11	14	0.29	0.27	1.6	0.20	0.17	0.82	
SOLARCOOL (2) GRAYLITE II + SOLARBAN 60 (3) Clear	0	3	2	5	5	0.29	0.27	1.6	0.12	0.10	0.30	
<b>SOLARCOOL® Glass (Reflective) with SOLARBAN® 70XL Solar Control Low-E (3)*</b>												
SOLARCOOL (2) SOLARBLUE + SOLARBAN 70XL (3)	1	16	6	14	16	0.28	0.26	1.5	0.18	0.15	1.07	
SOLARCOOL (2) SOLARBRONZE + SOLARBAN 70XL (3)	1	15	6	14	19	0.28	0.26	1.5	0.17	0.15	1.00	
SOLARCOOL (2) SOLARGRAY + SOLARBAN 70XL (3)	1	13	5	11	15	0.28	0.26	1.5	0.16	0.14	0.93	
SOLARCOOL (2) GRAYLITE II + SOLARBAN 70XL (3)	0	3	1	5	5	0.28	0.26	1.5	0.11	0.09	0.33	

\*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 6.3 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.ppgideascales.com](http://www.ppgideascales.com) or request our Architectural Glass Catalog.

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