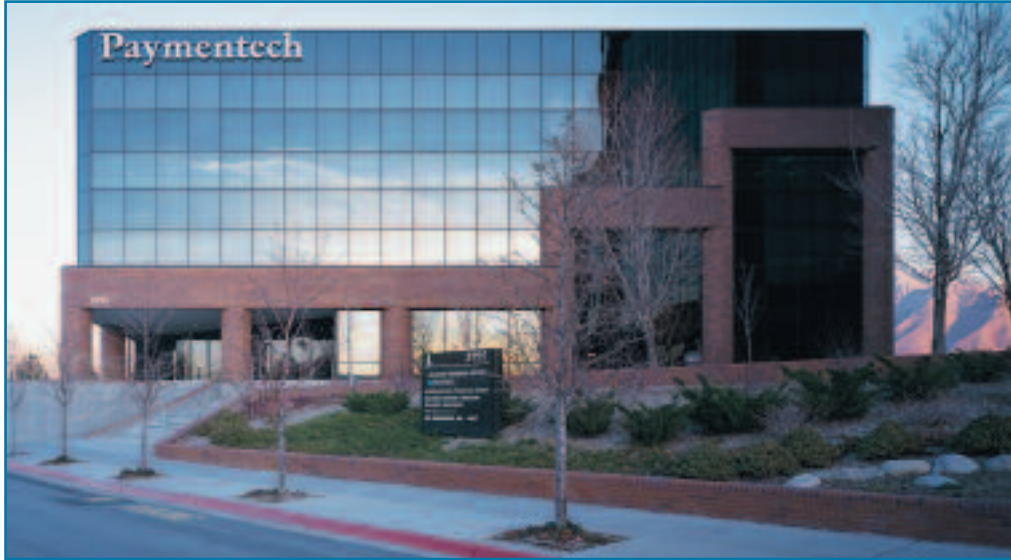


Solarcool® Reflective Glasses



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, PPG's 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.

Solarcool® Reflective Glass 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®** 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



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 U.S. and Canada, and international representatives in 25 countries.



Additional Resources

EcoLogical Building Solutions from PPG encompass a number of environmentally sustainable architectural glass products, including **Solarcool** glass. For more information or to obtain samples of any PPG glass product, call 1-888-PPG-IDEA (774-4332), or visit www.ppgideascesapes.com. All PPG architectural glass is Cradle to Cradle Certified.^{CM}



PPG IdeaScapes™ Integrated people, products 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 | | | | |
| Coated | | | | | | | | | | | |
| SOLARCOOL® Glass (Reflective) | | | | | | | | | | | |
| SOLARCOOL (1) SOLARBLUE + Clear | 7 | 19 | 19 | 37 | 31 | 0.47 | 0.50 | 2.81 | 0.33 | 0.28 | 0.67 |
| SOLARCOOL (2) SOLARBLUE + Clear | 7 | 20 | 19 | 15 | 11 | 0.47 | 0.50 | 2.81 | 0.37 | 0.32 | 0.61 |
| SOLARCOOL (1) SOLARBRONZE + Clear | 6 | 18 | 21 | 37 | 31 | 0.47 | 0.50 | 2.81 | 0.35 | 0.31 | 0.59 |
| SOLARCOOL (2) SOLARBRONZE + Clear | 6 | 19 | 21 | 14 | 12 | 0.48 | 0.50 | 2.82 | 0.40 | 0.34 | 0.55 |
| SOLARCOOL (1) SOLARGRAY + Clear | 6 | 15 | 17 | 37 | 30 | 0.47 | 0.50 | 2.81 | 0.32 | 0.27 | 0.57 |
| SOLARCOOL (2) SOLARGRAY + Clear | 6 | 16 | 18 | 11 | 10 | 0.48 | 0.50 | 2.82 | 0.36 | 0.31 | 0.50 |
| SOLARCOOL (1) GRAYLITE + Clear | 2 | 5 | 12 | 36 | 30 | 0.47 | 0.50 | 2.81 | 0.26 | 0.22 | 0.21 |
| SOLARCOOL (2) GRAYLITE + Clear | 2 | 5 | 12 | 5 | 6 | 0.48 | 0.50 | 2.82 | 0.31 | 0.26 | 0.18 |
| SOLARCOOL® Glass (Reflective) with SUNGATE® 500 Low-E (3) | | | | | | | | | | | |
| SOLARCOOL (2) SOLARBLUE + SUNGATE 500 (3) Clear | 6 | 18 | 15 | 15 | 12 | 0.35 | 0.35 | 1.96 | 0.32 | 0.27 | 0.67 |
| SOLARCOOL (2) SOLARBRONZE + SUNGATE 500 (3) Clear | 5 | 18 | 17 | 14 | 13 | 0.35 | 0.35 | 1.96 | 0.34 | 0.29 | 0.61 |
| SOLARCOOL (2) SOLARGRAY + SUNGATE 500 (3) Clear | 5 | 15 | 14 | 11 | 10 | 0.35 | 0.35 | 1.96 | 0.30 | 0.26 | 0.56 |
| SOLARCOOL (2) GRAYLITE + SUNGATE 500 (3) Clear | 1 | 5 | 9 | 5 | 7 | 0.35 | 0.35 | 1.96 | 0.25 | 0.21 | 0.21 |
| SOLARCOOL® Glass (Reflective) with SOLARBAN® 60 Solar Control Low-E (3) | | | | | | | | | | | |
| SOLARCOOL (2) SOLARBLUE + SOLARBAN 60 (3) Clear | 3 | 17 | 9 | 14 | 15 | 0.29 | 0.27 | 1.55 | 0.21 | 0.18 | 0.97 |
| SOLARCOOL (2) SOLARBRONZE + SOLARBAN 60 (3) Clear | 3 | 17 | 9 | 14 | 18 | 0.29 | 0.27 | 1.55 | 0.21 | 0.18 | 0.92 |
| SOLARCOOL (2) SOLARGRAY + SOLARBAN 60 (3) Clear | 2 | 14 | 7 | 11 | 14 | 0.29 | 0.27 | 1.55 | 0.19 | 0.16 | 0.86 |
| SOLARCOOL (2) GRAYLITE + SOLARBAN 60 (3) Clear | 1 | 4 | 3 | 5 | 10 | 0.29 | 0.27 | 1.55 | 0.14 | 0.12 | 0.36 |
| SOLARCOOL® Glass (Reflective) with SOLARBAN® 70XL Solar Control Low-E (3)* | | | | | | | | | | | |
| SOLARCOOL (2) SOLARBLUE + SOLARBAN 70XL (3) | 1 | 16 | 6 | 14 | 16 | 0.28 | 0.26 | 1.50 | 0.18 | 0.15 | 1.03 |
| SOLARCOOL (2) SOLARBRONZE + SOLARBAN 70XL (3) | 1 | 15 | 6 | 14 | 19 | 0.28 | 0.26 | 1.50 | 0.17 | 0.15 | 1.01 |
| SOLARCOOL (2) SOLARGRAY + SOLARBAN 70XL (3) | 1 | 13 | 5 | 11 | 15 | 0.28 | 0.26 | 1.50 | 0.16 | 0.14 | 0.89 |
| SOLARCOOL (2) GRAYLITE + SOLARBAN 70XL (3) | < 1 | 4 | 2 | 5 | 10 | 0.28 | 0.26 | 1.50 | 0.12 | 0.10 | 0.39 |

* 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 5.2 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.ppgideascesapes.com or request our Architectural Glass Catalog.

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