

Solarcool® Reflective Glasses



400 Berwyn Park
Location: Berwyn, PA
Product: Solarcool® Azuria™ Glass
Architect: Garrison Architects
Glazing Contractor: Hutts Glass
Glass Fabricator: J.E. Berkowitz, LP

Ocean-Inspired Series

Solarcool® Reflective Glasses

PPG's earth tone series of **Solarcool** Reflective Tinted Glasses have inspired a generation of architects and designers with an expressive palette of color.

Now PPG is taking a dramatic new step in the evolution of **Solarcool** reflective glasses with the addition of a new series of ocean-inspired tints. Drawn from **Oceans of Color**®, our industry-leading collection of spectrally selective architectural glasses, these three new tints offer the best of both worlds: a distinct and stunning array of colors together with the premium performance today's building codes demand.

Whether you want the startling clarity of the marine-blue Atlantic or the soothing rhythms of the aqua-green Caribbean, **Solarcool** reflective glasses have the glazing options you need to make your architectural vision a living reality.

Ocean-Inspired Series of Solarcool® Reflective Glasses

Solarcool® Caribia® Glass

The newest member of PPG's industry-leading collection of spectrally selective architectural glasses, **Solarcool Caribia** Glass creates a softly reflective, warm, green appearance when glazed with the reflective coating facing inboard (#2).

When glazed with the reflective coating on the outboard surface (#1), higher visible light reflectivity mutes the aqua-green hue to create a more metallic appearance that highlights shifting light conditions and the surrounding landscapes.

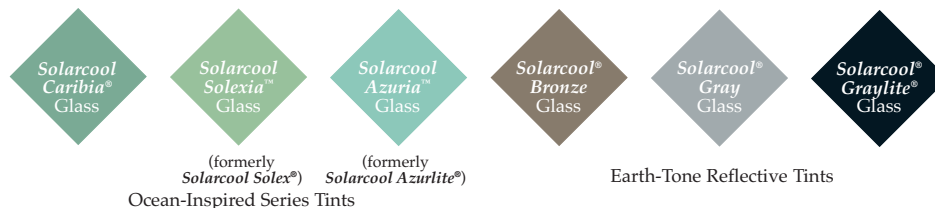
Solarcool® Solexia™ Glass (formerly Solarcool Solex®)

The light green color of **Solexia** Glass, part of the **Oceans of Color** collection, is an exceptional complement to the soft reflectivity of the **Solarcool** coating. When glazed with the reflective coating facing inboard (#2), **Solarcool (2) Solexia** Glass has a natural green reflectivity that enhances the beauty of its surroundings while harmonizing with other natural building materials. To achieve a higher visible light reflectivity, **Solarcool (1) Solexia** can be glazed with the reflective coating on the outboard surface (#1) to capture the mood of changing skies and the neighboring environment.

Solarcool® Azuria™ Glass (formerly Solarcool Azurlite®)

Solarcool Azuria Glass's stunning aquamarine tint can be captured with the reflective coating on the inboard surface (#2) or take on a more shimmering quality with the addition of the reflective coating on the outboard (#1) surface. In either case, this exceptionally attractive glass evokes the soothing qualities of the azure blue sea.

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, Ocean-Inspired 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) SOLEXIA™ Glass | | | | | | | | | | | | | |
| 1/4 | 6 | 9 | 30 | 23 | 37 | 30 | 1.03 | 0.93 | 5.85 | 5.28 | 0.44 | 0.38 | 0.79 |
| SOLARCOOL® (2) SOLEXIA™ Glass | | | | | | | | | | | | | |
| 1/4 | 6 | 9 | 30 | 23 | 23 | 37 | 1.03 | 0.93 | 5.85 | 5.28 | 0.50 | 0.43 | 0.70 |
| SOLARCOOL® (1) CARIBIA® Glass | | | | | | | | | | | | | |
| 1/4 | 6 | 7 | 26 | 14 | 36 | 30 | 1.03 | 0.93 | 5.85 | 5.28 | 0.36 | 0.31 | 0.84 |
| SOLARCOOL® (2) CARIBIA® Glass | | | | | | | | | | | | | |
| 1/4 | 6 | 7 | 26 | 14 | 19 | 9 | 1.03 | 0.93 | 5.85 | 5.28 | 0.44 | 0.38 | 0.69 |
| SOLARCOOL® (1) AZURIA™ Glass | | | | | | | | | | | | | |
| 3/16 | 5 | 13 | 27 | 16 | 36 | 30 | 1.03 | 0.93 | 5.85 | 5.28 | 0.37 | 0.32 | 0.85 |
| 1/4 | 6 | 12 | 26 | 14 | 36 | 30 | 1.03 | 0.93 | 5.85 | 5.28 | 0.36 | 0.31 | 0.84 |
| SOLARCOOL® (2) AZURIA™ Glass | | | | | | | | | | | | | |
| 3/16 | 5 | 13 | 27 | 16 | 36 | 10 | 1.03 | 0.94 | 5.85 | 5.34 | 0.45 | 0.39 | 0.70 |
| 1/4 | 6 | 12 | 26 | 14 | 19 | 10 | 1.03 | 0.93 | 5.85 | 5.28 | 0.44 | 0.38 | 0.69 |

One-Inch Insulating Glass Unit Comparisons Using 1/4" (6mm) Solarcool® Glass, Ocean-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 | | | | | | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|----------------------|-----------------|----------------------|--------------------|-----------------|-------------------|-----------------|---------------------|-----------------------------|---------------------------|
| 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) SOLEXIA | 7 | 27 | 18 | 37 | 31 | 0.47 | 0.50 | 2.67 | 2.84 | 0.32 | 0.28 | 0.96 |
| SOLARCOOL (2) SOLEXIA | 7 | 27 | 19 | 24 | 12 | 0.48 | 0.50 | 2.73 | 2.84 | 0.36 | 0.31 | 0.87 |
| SOLARCOOL (1) CARIBIA | 6 | 23 | 12 | 37 | 30 | 0.47 | 0.50 | 2.67 | 2.84 | 0.25 | 0.22 | 1.05 |
| SOLARCOOL (2) CARIBIA | 6 | 24 | 12 | 19 | 9 | 0.48 | 0.50 | 2.73 | 2.84 | 0.30 | 0.25 | 0.96 |
| SOLARCOOL (1) AZURIA | 10 | 23 | 11 | 37 | 30 | 0.47 | 0.50 | 2.67 | 2.84 | 0.25 | 0.21 | 1.10 |
| SOLARCOOL (2) AZURIA | 10 | 24 | 12 | 20 | 10 | 0.48 | 0.50 | 2.73 | 2.84 | 0.29 | 0.25 | 0.96 |
| SOLARCOOL® Glass (Reflective) with SUNGATE® 500 Low-E (3) | | | | | | | | | | | | |
| SOLARCOOL (2) SOLEXIA + Low-E | 6 | 25 | 15 | 24 | 13 | 0.35 | 0.35 | 1.99 | 1.99 | 0.31 | 0.26 | 0.96 |
| SOLARCOOL (2) CARIBIA + Low-E | 5 | 22 | 10 | 19 | 10 | 0.35 | 0.35 | 1.99 | 1.99 | 0.24 | 0.21 | 1.05 |
| SOLARCOOL (2) AZURIA + Low-E | 8 | 22 | 10 | 20 | 10 | 0.35 | 0.35 | 1.99 | 1.99 | 0.23 | 0.20 | 1.10 |
| SOLARCOOL® Glass (Reflective) with SOLARBAN® 60 Solar Control Low-E (3) | | | | | | | | | | | | |
| SOLARCOOL (2) SOLEXIA + Low-E | 3 | 24 | 10 | 24 | 15 | 0.29 | 0.28 | 1.65 | 1.55 | 0.22 | 0.19 | 1.26 |
| SOLARCOOL (2) CARIBIA + Low-E | 2 | 20 | 8 | 19 | 10 | 0.29 | 0.28 | 1.65 | 1.55 | 0.19 | 0.17 | 1.31 |
| SOLARCOOL (2) AZURIA + Low-E | 4 | 21 | 8 | 19 | 10 | 0.29 | 0.28 | 1.65 | 1.55 | 0.19 | 0.17 | 1.31 |

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.
7080 1/05 10M

