Solarcool® Reflective Glasses

PPG IdeaScapes™
Glass • Coatings • Paint

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 Coeffi-cient	Solar Heat Gain Coeffi-cient	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 Coeffi-cient	Solar Heat Gain Coeffi-cient	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*® (Reflective) Glass 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.

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