



Maritime Plaza
Location: Washington, D.C.
Products: Solexia™/Solarban® 60 Glass
Architect: HKS
Glazing Contractor: EDRON Glass
Glass Fabricator: J.E. Berkowitz, L.P.
Owner/Developer: Maritime Plaza I, L.P./ Lincoln Property Company

Aesthetic Description

Solexia™ Glass (formerly **Solex®**) is a soothing, light-green glass that is now part of the **Oceans of Color®** collection by PPG. Introduced in 1952, **Solex** glass introduced the concept of spectrally selective* glasses to the architectural community and launched an unparalleled heritage of energy-saving performance and exceptionally attractive looks. With its new identity, **Solexia** glass will remain an industry standard for spectrally selective performance — a role it has played for more than a half-century.

Performance Options

Solexia Glass (6mm Monolithic)

- Exceptional Visible Light Transmittance (VLT): 77%
- Good Solar Heat Gain Coefficient (SHGC): 0.60
- Excellent Light to Solar Gain (LSG) ratio: 1.28

Solexia Glass (1" I.G. unit, 6mm)

- Exceptional Visible Light Transmittance (VLT) for any tinted glass insulating unit: 69%
- Good Solar Heat Gain Coefficient (SHGC): 0.49
- Excellent Light to Solar Gain (LSG) ratio: 1.41

Solexia and Sungate® 500 (3) Low-E Glass (I.G. unit, 6mm)

Combining Solexia with Sungate 500 Low-E glass delivers premium performance at a highly competitive cost.

- Outstanding Visible Light Transmittance (VLT): 64%
- Good Solar Heat Gain Coefficient (SHGC): 0.45
- Excellent Light to Solar Gain (LSG) ratio: 1.42

Solexia and Solarban® 60 (3) Solar Control Low-E Glass (I.G. unit, 6mm)

Combining these two products provides outstanding overall energy performance.

- Outstanding Visible Light Transmittance (VLT): 60%
- Good Solar Heat Gain Coefficient (SHGC): 0.37
- Exceptional Light to Solar Gain (LSG) ratio: 1.62

* The U.S. Department of Energy defines spectrally selective as glass with a Light to Solar Gain (LSG) ratio of 1.25 or higher.



Solexia™
Glass

(formerly **Solex®**)



Atlantica™
Glass

(formerly **Solargreen®**)



Caribia®
Glass



Azuria™
Glass

(formerly **Azurlite®**)



Staples Center

Location: Los Angeles, CA
Product: Solexia™ Glass
Glazing Contractor: APEX
Glass Fabricator: Glasstwerks, Inc.
Owner/Developer: L.A. Arena Co., LLC

For a half-century, Solexia™ Glass (formerly Solex®) by PPG has allowed the design of comfortable, attractive structures such as New York's Lever House. This architectural landmark was the first major building to use tinted glass as a design and environmental control element.

Fabrication and Availability

Solexia glass provides maximum processing flexibility and can easily be heat-strengthened, tempered, or laminated to satisfy increased strength or safety glazing requirements. Solexia glass is durable and readily available from nearly 100 glass fabrication locations throughout the U.S. and Canada.

Additional Resources

Solexia glass is just one of the EcoLogical Building Solutions™ from PPG. For more information, or to obtain samples of Solexia glass, call 1-888-PPG-IDEA, or visit www.ppgglazing.com.



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Solexia™ Glass (formerly Solex®) Performance — Commercial Insulating Glass Unit and Monolithic Comparisons Using 1/4" (6mm) Glass

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			
Monolithic (6mm)												
SOLEXIA	31	77	47	8	6	1.02	0.93	5.79	5.28	0.71	0.61	1.26
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												
SOLEXIA Tinted Glass	25	69	39	13	8	0.47	0.50	2.67	2.84	0.57	0.49	1.41
SUNGATE® Low-E Glasses												
SUNGATE 100 (3) SOLEXIA	18	63	30	10	10	0.31	0.30	1.76	1.70	0.48	0.41	1.54
SUNGATE 500 (3) SOLEXIA	21	64	33	14	9	0.35	0.35	1.99	1.99	0.51	0.45	1.42
SOLARBAN® 60 Solar Control Low-E Glass												
SOLARBAN 60 (3) SOLEXIA	8	60	25	11	11	0.29	0.28	1.65	1.55	0.42	0.37	1.62

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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