



Hillman Library at University of Pittsburgh



The National Aviary - The Garden Room



University of Kansas Medical Center Health Education Building

**Starphire Ultra-Clear® Exterior Glazings**

# Unmatched Beauty and Brightness

With its sparkling blue edge, *Starphire Ultra-Clear®* glass for exterior glazings sets a standard in clarity and true-to-life views.

**Aesthetic:** Stunningly clear with vivid color fidelity  
**Reflectivity:** Low

Availability				
Titan™ Glass Sizes	BirdSmart® Glass	Annealed	Heat Treatable	Vitro Certified® Network
✓	✓	✓	✓	✓

Compatibility			
Laminated	Bent	Heat Soaked Testing	Used With Sungate ThermL™ Glass
✓	✓	✓	✓

**Insulating Glass Unit Performance Comparisons | 1-inch (25 mm) units with 1/2-inch (13 mm) airspace and two 1/4-inch (6 mm) lites**

Outdoor Lite: Coating if Any (Surface) Glass	Glass Type +	Indoor Lite: Coating if Any (Surface) Glass	Visible Light Transmittance (VLT) %	Visible Light Reflectance		(BTU/hr <sup>2</sup> ft <sup>2</sup> °F) NFRC U-Value		Solar Heat Gain Coefficient (SHGC)	Color Rendering Index (CRI)
				Exterior %	Interior %	Winter Nighttime	Winter Argon		

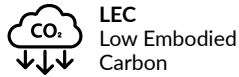
<i>Starphire Ultra-Clear® Glass</i>									
<i>Solarban Champagne™ Low-e Glass</i>									
<i>Solarban Champagne™ (2) Starphire® + Starphire®</i>			47	27	12	0.29	0.24	0.26	93
<i>Solarban® 60 Solar Control Low-e Glass</i>									
<i>Solarban® 60 (2) Starphire® + Starphire®</i>			74	11	12	0.29	0.24	0.41	98
<i>Solarban® 65 Solar Control Low-e Glass</i>									
<i>Solarban® 65 (2) Starphire® + Starphire®</i>			73	15	15	0.29	0.24	0.36	99
<i>Solarban® 72 Solar Control Low-e Glass</i>									
<i>Solarban® 72 (2) Starphire® + Starphire®</i>			68	13	14	0.28	0.24	0.28	95
<i>Solarban® 90 Solar Control Low-e Glass</i>									
<i>Solarban® 90 (2) Starphire® + Starphire®</i>			54	13	20	0.29	0.24	0.23	95
<i>Solarban® R100 Neutral-Reflective Low-e Glass</i>									
<i>Solarban® R100 (2) Starphire® + Starphire®</i>			44	33	14	0.29	0.25	0.23	93
<i>Solarban® R77 Neutral-Reflective Low-e Glass</i>									
<i>Solarban® R77 (2) Starphire® + Starphire®</i>			50	26	16	0.29	0.24	0.25	98
<i>Solarban® R67 Neutral-Reflective Low-e Glass (formerly Solarban® 67 Glass)</i>									
<i>Solarban® R67 (2) Starphire® + Starphire®</i>			57	20	16	0.29	0.24	0.30	95
<i>Sungate ThermL™ U-Value Enhancing Low-e Glass</i>									
<i>Solarban® 60 (2) Starphire® + Sungate ThermL™ (4) Starphire®</i>			73	11	11	0.23	0.20	0.41	98
<i>Solarban® 65 (2) Starphire® + Sungate ThermL™ (4) Starphire®</i>			72	14	14	0.23	0.20	0.36	99
<i>Solarban® 72 (2) Starphire® + Sungate ThermL™ (4) Starphire®</i>			66	13	13	0.23	0.20	0.27	95
<i>Solarban® 90 (2) Starphire® + Sungate ThermL™ (4) Starphire®</i>			52	12	18	0.23	0.20	0.22	95

All performance data calculated using LBNL Window 7.8 software and represents center of glass performance data. For detailed information on the methodologies used to calculate the aesthetic and performance values in this table, please visit vitroglazings.com or request our Architectural Glass Catalog.

**Sustainability**

All Vitro Architectural Glass Products meet US GSA Low-Embodied Carbon standards.

Vitro is the **first** U.S. glass manufacturer to have its entire collection earn **Cradle to Cradle Certified®** recognition and **first** North American glass manufacturer to publish **Environmental Product Declarations (EPDs)** for Flat and Processed Glass Products.



For more information visit [vitroglazings.com](http://vitroglazings.com), or call 1-855-VTRO-GLS (887-6457).

To order samples, visit [samples.vitroglazings.com](http://samples.vitroglazings.com)



Starphire Ultra-Clear® Glass

**Projects**

**Hilman Library at University of Pittsburgh** | Pittsburgh, Pennsylvania | Solarban® 72 Starphire® Glass | Architect: GBBN Architects  
Glass Fabricator: Press Glass Inc. | Glazing Contractor: HB Reynolds Inc. | General Contractor: Rycon Construction | Photographer: Jim Cunningham

**The National Aviary - The Garden Room** | Pittsburgh, Pennsylvania | Starphire® Glass, AviProtek® Glass by Walker Glass  
Architect: Springboard Design | Glass Fabricator: Dlubak Specialty Glass | Glazing Contractor: Specified Systems, United Plate Glass Company  
Photographer: Elliot Cramer

**University of Kansas Medical Center Health Education Building** | Kansas City, Kansas | Solarban® 70 Glass, Solarban® 72 Glass, Starphire® Glass  
Architect: Helix Architecture + Design, CO Architects | Glass Fabricator: Insulite Glass | Glazing Contractor: Jim Plunkett Incorporated  
Photographer: Tom Kessler