

20 MASS Ave. | Washington, D.C. | Solarban® 72 Acuity® Glass | Architect: Leo A. Daly | Vitro Certified® Fabricator: Press Glass Glazing Contractor: Pioneer Cladding & Glazing Systems | General Contractor: DPR Construction | Photographer: Jim Cunningham





Low-E. Low Iron. High Clarity. At an Affordable Cost.

The right glass can be the focal point of your design. Combining the superior color accuracy of *Acuity*[®] low-iron glass with the peak energy performance of Vitro's *Solarban*[®] family of glass products creates a visually striking and high performing façade. *Acuity*[®] glass is available with the full spectrum of *Solarban*[®] solar control, low-e coatings.

Your Design's Focal Point

Developed based on 30 years of experience manufacturing *Starphire Ultra-Clear*[®] glass, *Acuity*[®] glass is produced utilizing proprietary low-iron materials and processes, specifically designed for exterior vision glazing applications. *Acuity*[®] low-iron glass serves as a substrate for *Solarban*[®] low-e coatings and is **60% less green** than standard "clear" glass. It is suitable for all lites in an insulating glass unit (IGU) or laminated configurations.

Where to Use Solarban® Acuity® Glass

The award-winning *Solarban®* Acuity[®] glass is optimized for vision glazings or any exterior application where excellent clarity and low-e performance are needed.

Consider Solarban® Acuity® glass for the following applications:

- Office buildings and institutions
- Hotels
- Schools
- Luxury condos and mixed-use
- Entrances and retail storefronts

Solarban[®] Acuity[®] glass also is ideal for distinctive exterior applications, such as atriums, skylights and spandrel glass. For configurations that require exposed edges, such as interior applications, Vitro recommends *Starphire Ultra-Clear*[®] low-iron glass, known for its distinctive azure blue edge and exceptional clarity. *Starphire*[®] glass is **87% less green** than standard "clear" glass and can also be paired with *Solarban*[®] low-e coatings.



Parkland Health and Hospital System Moody Outpatient Center | Dallas, Texas | Solarban® 90 Acuity® Glass Architect: HKS | Vitro Certified® Fabricator: Hartung Glass Industries (formerly NWI) | Glazing Contractor: IWR North America Photographer: Tom Harris Architectural Photography

Optimizing Cost, Clarity & Performance

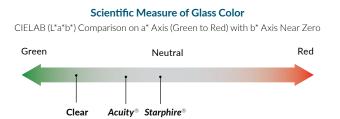
Cost Considerations

Solarban® Acuity[®] glass provides exceptional performance and optimal aesthetics at a fraction of the total installed façade cost, allowing you to meet your project's needs while adhering to budgetary constraints.

This optimization of cost, clarity and performance allows you to make *Solarban®* Acuity[®] glass the centerpiece of your façade design.

Design Considerations

Acuity[®] low-iron glass is 60% less green than standard "clear" glass. *Solarban*[®] Acuity[®] glass achieves excellent clarity and 1% to 3% higher visible light transmittance (VLT) than coated clear glass.



Fabrication & Availability

Solarban[®] *Acuity*[®] glasses are available in thicknesses of 6, 8 and 10 millimeters and are stocked at all Vitro facilities for immediate shipment, with the same lead time as other *Solarban*[®] glass products. *Acuity*[®] glass can also be cut, drilled, heat-treated, laminated, and bent, just like any low-iron glass or substrate.

All Solarban® solar control low-e glasses are available through the Vitro Certified® Network.





SAFE Credit Union Performing Arts Center | Sacramento, California | Solarban® 90 Acuity® Glass Architect: DLR Group | Vitro Certified® Fabricator: Glassfab Tempering Services | Glazing Contractor: Bagatelos Photographer: Tom Kessler

Supporting Sustainable Design

Vitro Architectural Glass provides abundant opportunities for architects and building owners to realize their sustainability objectives.

Energy Use & Operating Cost Reduction: High-performance glasses by Vitro are engineered to facilitate downsized mechanical equipment costs, leading to reduced long-term energy costs. For glass comparison and configuration tools, visit **tools.vitroglazings.com**. **Sustainability Documentation:** Vitro Architectural Glass is the first U.S. float glass manufacturer to have its entire selection of products recognized by the *Cradle to Cradle Certified*[®] program, and the first in North America to publish third-party verified EPDs for its Flat Glass and Processed Glass products.

For additional credit opportunities and supporting documentation, visit **vitroglazings.com/LEED**

LEED [®] Credit Opportunities									
Possible Points	LEED Credit	Solarban [®] Acuity [®] Glass Feature	Path/Option Satisfied						
18	Energy & Atmosphere (EA) Optimize Energy Performance	Excellent SHGC, U-value and Tvis performance	Whole Building Energy Simulation (Option 1) or Prescriptive Compliance: ASHRAE Advanced Energy Design Guide (Option 2)						
5	Innovation (IN) Innovation in Design	Exceeds minimum performance mandated by local energy codes	Innovation (Option 1), Pilot (Option 2) and Exemplary Performance (Option 3)						
3	Indoor Environmental Quality (EQ) Daylight	Exhibits high light transmission	Simulation: Spatial Daylight Autonomy and Annual Sunlight Exposure (Option 1), Simulation: Illuminance Calculations (Option 2) or Measurement (Option 3)						

Performance Data for Solarban® Acuity® Low-E Low-Iron Glass

Insulating Glass Unit (IGU) Performance Comparisons 1-inch (25 mm) units with 1/2-inch (13 mm) airspace and two 1/4-inch (6 mm) lites									
Glass Type	Visible Light Transmittance (VLT) %	Visible Light Reflectance		(Btu/hr∙ft²•°F) NFRC U-Value		Solar Heat Gain	Color Rendering		
Outdoor Lite: Indoor Lite: Coating if Any + Coating if Any (Surface) Glass (Surface) Glass		Exterior %	Interior %	Winter Nighttime	Winter Argon	Coefficient (SHGC)	Index (CRI)		
Coated	•								
SOLARBAN [®] 60 Solar Control Low-e Glass									
SOLARBAN 60 (2) ACUITY + ACUITY	73%	11%	12%	0.29	0.24	0.41	97		
SOLARBAN® 65 Solar Control Low-e Glass									
SOLARBAN 65 (2) ACUITY + ACUITY	72%	15%	15%	0.29	0.24	0.36	98		
SOLARBAN [®] R67 Solar Control Low-e Glass									
SOLARBAN R67 (2) ACUITY + ACUITY	56%	19%	16%	0.29	0.24	0.30	94		
SOLARBAN® 72 Solar Control Low-e Glass									
SOLARBAN 72 (2) ACUITY + ACUITY	67%	13%	14%	0.28	0.24	0.28	94		
SOLARBAN [®] 90 Solar Control Low-e Glass									
SOLARBAN 90 (2) ACUITY + ACUITY	53%	12%	19%	0.29	0.24	0.23	94		
SOLARBAN® R77 Neutral-Reflective Low-e Glass									
SOLARBAN R77 (2) ACUITY + ACUITY	49%	26%	16%	0.29	0.24	0.25	95		
SOLARBAN® R100 Neutral-Reflective Low-e Glass									
SOLARBAN R100 (2) ACUITY + ACUITY	43%	33%	13%	0.29	0.25	0.23	92		

All performance data calculated using LBNL Window 7.3 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.



Additional Resources

To obtain samples of any Vitro Glass product, call 1-855-VTRO-GLS (877-6457) or visit **samples.vitroglazings.com**. For videos, design insights and technical education, visit the Vitro Glass Education Center at **glassed.vitroglazings.com**. For glass comparison and configuration tools, visit **tools.vitroglazings.com**.

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