

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

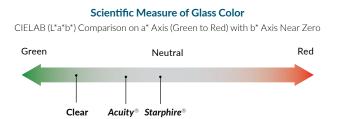
Cost Considerations

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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