

Capture clarity.



  
**Acuity**<sup>™</sup>  
Low-Iron Glass

# Extraordinary clarity for an ordinary investment.

Elevate aesthetics for a modest investment, without sacrificing performance. Developed to withstand value-engineering, new *Acuity™* Glass by Vitro Architectural Glass (formerly PPG Glass) is an affordable low-iron solution available with *Solarban®* solar control low-e coatings, offering vivid views with no green cast. Where conventional clear glass was once a given, pure clarity is now within reach.

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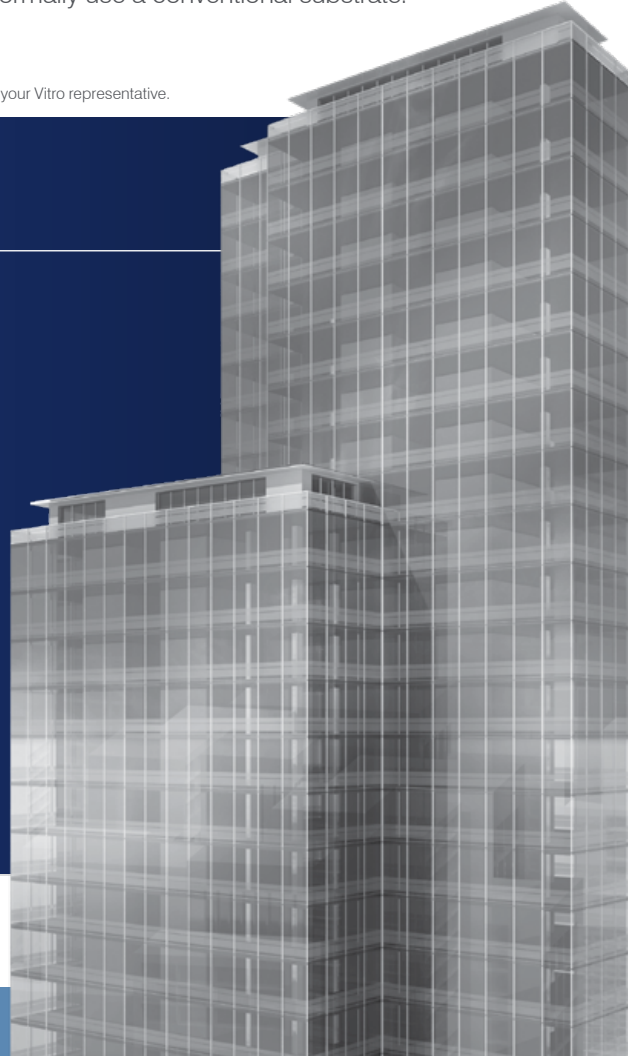
## Applications

Available in 6mm thickness\* with or without low-emissivity (low-e) coatings, *Acuity™* Low-Iron Glass delivers truer color rendition than clear glass, with less green, resulting in high image fidelity and visible light transmittance (VLT). *Acuity™* glass is ideal for vision and spandrel glass applications or anywhere you might normally use a conventional substrate.

\* Other thicknesses may be available for special order. Please contact your Vitro representative.

### Consider *Acuity™* glass for the following applications:

- For each lite of vision glazing, including low-e, to promote daylighting and foster clearer visual connections between indoor and outdoor environments
- Painted spandrel glass for excellent color rendition
- Laminated glass to eliminate the green cast of conventional clear glass



## Clarity, Plus Performance

When used with low-e coatings, *Acuity*<sup>™</sup> Low-Iron Glass delivers neutral aesthetics, high VLT and the performance you expect from Vitro high performance glasses—all without compromising stringent project budgets. All *Solarban*<sup>®</sup> solar control low-e glasses are available through the *Vitro Certified*<sup>™</sup> Network.

- ***Solarban*<sup>®</sup> 60 Glass:** On *Acuity*<sup>™</sup> glass, *Solarban*<sup>®</sup> 60 glass is visibly clearer and has a higher light transmittance than a conventional clear/clear low-e coated insulating unit.
- ***Solarban*<sup>®</sup> 67 Glass:** On *Acuity*<sup>™</sup> glass, the soft, neutral *Solarban*<sup>®</sup> 67 coating endows buildings with a clean, clear appearance that delivers a visual “pop.” *Solarban*<sup>®</sup> 67 glass transmits and reflects the timbre and brightness of ambient light and the surrounding environment with true color fidelity, especially with *Acuity*<sup>™</sup> glass as its substrate.
- ***Solarban*<sup>®</sup> 72 on *Acuity*<sup>™</sup> Glass:** The color-neutral aesthetic of the *Solarban*<sup>®</sup> 72 coating on *Acuity*<sup>™</sup> glass delivers exceptional solar control and light transmittance to help strike the right balance between form and function.
- ***Solarban*<sup>®</sup> 90 Glass:** The latest evolution in solar control low-e glass, *Solarban*<sup>®</sup> 90 glass conveys a neutral appearance in both color and reflectance, whether viewed from the interior or exterior of a building. Combining advanced coating technology and refinements to proven triple-silver-coating technology, *Solarban*<sup>®</sup> 90 glass is the world's first quad-silver-coated glass.

***Solarban*<sup>®</sup> R100 Glass:** *Solarban*<sup>®</sup> R100 glass is a neutral-reflective low-e glass that delivers a pure, cool blue-gray appearance when used on *Acuity*<sup>™</sup> glass. Because *Solarban*<sup>®</sup> R100 glass uniquely balances reflectivity and color-neutrality, it can function both as a privacy glass and as a material that harmonizes with spandrels and other building materials.

## Fabrication & Availability

Specify and order *Acuity*<sup>™</sup> Low-Iron Glass with confidence. Not only can you expect reliable supply but also consistent performance and flatness, even in tempering.

*Acuity*<sup>™</sup> glass also can be cut, drilled, heat-treated, laminated and bent, just like any other low-iron glass or glass substrate. And when performance and energy efficiency are essential, *Acuity*<sup>™</sup> glass is available with Vitro low-e coatings, through the *Vitro Certified*<sup>™</sup> Network.

## Available Sizes

### Uncoated

(6mm Monolithic)

- Standard: 96" x 130"
- Jumbo: 130" x 204"
- 130" x 240" (in 2019)

### Coated

- Full-Size: 100" x 144"
- Jumbo: 130" x 204"
- 130" x 236" (in 2019)

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For more information about *Acuity*<sup>™</sup> Low-Iron Glass and other architectural glasses by Vitro Glass, visit [vitroglazings.com/acuity](http://vitroglazings.com/acuity), or call **1-855-VTRO-GLS** (887-6457).



# Performance Data for Acuity™ Low-Iron Glass

## Monolithic

Table of Performance Values <sup>1</sup>									
Glass Thickness		Visible Light Transmittance (VLT) <sup>2</sup>	Visible Light Reflectance <sup>2</sup>		(Btu/hr•ft <sup>2</sup> •°F) NFRC U-Value <sup>3</sup>		Solar Heat Gain Coefficient (SHGC) <sup>4</sup>	Light to Solar Gain (LSG) <sup>5</sup>	
Inches	mm		Exterior %	Interior %	Winter Night-time	Winter Argon			
Uncoated									
<b>ACUITY™ Low-Iron Glass</b>									
	.25	6	90%	8%	8%	1.02	N/A	0.87	1.03

## 1-Inch Insulating Glass Unit (IGU) Comparisons

Insulating Glass Unit Performance Comparisons <sup>1</sup> 1-inch (25mm) units with 1/2-inch (13mm) airspace and two 1/4-inch (6mm) lites									
Glass Type		Visible Light Transmittance (VLT) <sup>2</sup>	Visible Light Reflectance <sup>2</sup>		(Btu/hr•ft <sup>2</sup> •°F) NFRC U-Value <sup>3</sup>		Solar Heat Gain Coefficient (SHGC) <sup>4</sup>	Light to Solar Gain (LSG) <sup>5</sup>	
Outdoor Lite: Coating if Any (Surface) Glass	Indoor Lite: Coating if Any (Surface) Glass		Exterior %	Interior %	Winter Night-time	Winter Argon			
Coated									
<b>SOLARBAN® 60 Solar Control Low-E Glass</b>									
	SOLARBAN 60 (2) ACUITY + ACUITY		73%	11%	12%	0.29	0.24	0.41	1.78
<b>SOLARBAN® 67 Solar Control Low-E Glass</b>									
	SOLARBAN 67 (2) ACUITY + ACUITY		56%	19%	16%	0.29	0.24	0.30	1.87
<b>SOLARBAN® 72 Solar Control Low-E Glass</b>									
	SOLARBAN 72 (2) ACUITY + ACUITY		67%	13%	14%	0.29	0.24	0.28	2.39
<b>SOLARBAN® 90 Solar Control Low-E Glass</b>									
	SOLARBAN 90 (2) ACUITY + ACUITY		53%	12%	19%	0.29	0.24	0.23	2.30
<b>SOLARBAN® R100 Solar Control Low-E Glass</b>									
	SOLARBAN R100 (2) ACUITY + ACUITY		43%	33%	13%	0.29	0.25	0.23	1.87

- Data is based on center of glass performance of representative factory production samples. Actual values may vary due to the production process and manufacturing tolerances. All tabulated data is based on NFRC methodology using the LBNL Window 7.3 software.
- Transmittance and reflectance values based on spectrophotometric measurements and energy distribution of solar radiation.
- U-Value – A measure of the insulating characteristics of the glass or how much heat gain or loss occurs through the glass due to the difference between indoor and outdoor temperatures and is measured Btu/hr•ft<sup>2</sup>•°F. The lower the number, the better the insulating performance. This number is the reciprocal of the R-Value.
- Solar Heat Gain Coefficient (SHGC) – Measures how well a window blocks (or shades) the heat from sunlight. SHGC is the fraction of solar radiation transmitted through a window or skylight, as well as the amount that is absorbed by the glass and reradiated to the interior. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits and the greater the shading ability. The SHGC is similar to the SC, but also accounts for absorbed, converted, and inwardly radiated solar energy.
- Light-to-solar gain (LSG) ratio is the ratio of visible light transmittance to solar heat gain coefficient.

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