

Product Data Sheet



Aesthetic Description

Solarban® 72 Starphire® glass is a new triple-silver-coated, solar control, low-e glass designed specifically to provide high visible light transmittance, exceptional clarity and superior solar control performance.

Expanding the Range of Performance Options

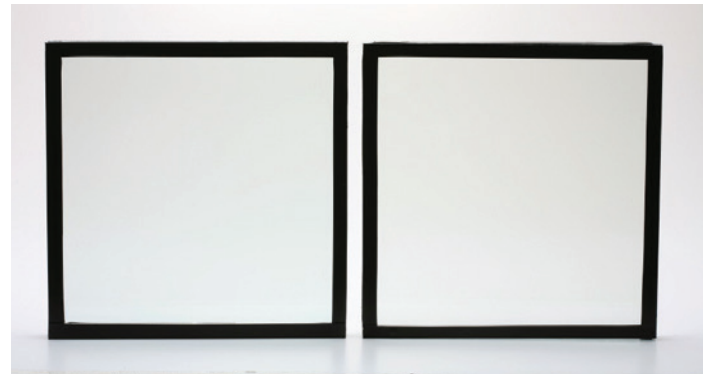
In a standard one-inch insulating glass unit, *Solarban® 72 Starphire®* glass boasts a Visible Light Transmittance (VLT) approximating that of *Solarban® 60 on Starphire®* glass, yet it offers 25 percent better solar control. *Solarban® 72 Starphire®* glass also has solar control characteristics that are similar to those of *Solarban® 70XL* glass, the industry's first triple-silver-coated, solar control, low-e glass, but it transmits 11 percent more visible light.

The table below shows the VLT and Solar Heat Gain Coefficient (SHGC) for all three products, which highlights the exceptional Light to Solar Gain (LSG) ratio of *Solarban® 72 Starphire®* glass:

Glass	VLT	SHGC	LSG Ratio
<i>Solarban® 72 Starphire® / Starphire®</i> Glass	71%	0.30	2.37
<i>Solarban® 70XL Glass / Clear</i>	64%	0.27	2.37
<i>Solarban® 60 Starphire® / Starphire®</i> Glass	74%	0.41	1.80

Engineered for Starphire® Glass

To maximize clarity and visible light transmittance, *Solarban® 72 Starphire®* glass insulating glass units feature one lite with an advanced triple-silver coating engineered for use on a *Starphire®* glass substrate and one lite of uncoated *Starphire®* glass. Thanks to a proprietary low-iron formulation developed by Vitro



Architectural Glass (formerly PPG glass), *Starphire®* glass has been the most transparent architectural glass in the industry since it was introduced more than 20 years ago.

Sustainable Design and Architectural Glass

Sustainable design, green building, safeguarding the environment and the long-term management of energy costs are vital considerations for contemporary building designers. Like other high-performance architectural glasses from Vitro, *Solarban® 72 Starphire®* glass gives architects and building owners a tool to reach their design objectives.

In addition to making products that support sustainable design, Vitro also is a pioneer of developing innovative technologies that reduce energy consumption during the glass-making process. Vitro promotes environmentally responsible manufacturing by recovering and reusing virtually all of its glass manufacturing by-products and by shipping its materials on reusable steel racks.

Vitro also promotes regional sourcing through its nationwide network of certified glass fabricators and laminators.

Solarban® 72 Starphire® glass supports sustainable design and can provide LEED® credit opportunities according to the following criteria:

LEED/Green Design Category	Feature	Benefit
Optimize Energy Performance Daylight & Views Innovation in Design	Excellent SHGC, U-value and Tvis performance <i>Solarban® 72 Starphire®</i> glass has exceptional visible light transmittance MBDC Cradle to Cradle Certification™	Helps projects achieve Minimum Energy Performance and ASHRAE 50% Advanced Energy Design Guide (AEDG) energy efficiency targets in LEED v4. Exceptional solar control performance enables buildings to use less energy and control long-term energy costs.



Solarban® 72 Glass

Fabrication and Availability

Solarban® 72 Starphire® glass is available through the Vitro Certified™ Network. Vitro Certified™ Fabricators can meet tight construction deadlines and accelerate the delivery of replacement glass before, during and after construction. Solarban® 72 Starphire® glass must be heat-treated.

Additional Resources

Solarban® 72 Starphire® glass is Cradle to Cradle Certified™. For more information or to obtain samples of any Vitro Glass product, call 1-855-VTRO-GLS (887-6457) or visit vitroglazings.com.

Vitro Architectural Glass is the first U.S. float glass manufacturer to have its products recognized by the Cradle to Cradle Certified™ program, and offers more C2C-certified architectural glasses than any other float glass manufacturer.



New Solarban 72 Starphire glass is comparable to Solarban 70XL glass, pictured here on AIA COTE award winner, The Terry Thomas in Seattle, with significantly better visible light transmittance and similar solar control.

Insulating Glass Unit Performance Comparisons 1-inch (25mm) units with 1/2-inch (13mm) airspace and two 1/4-inch (6mm) lites							
Glass Type	Visible Light Transmittance (VLT)	Visible Light Reflectance		(BTU/hr ² ft ² °F) NFRC U-Value		Solar Heat Gain Coefficient (SHGC)	Light to Solar Gain (LSG)
		Exterior %	Interior %	Winter Nighttime	Winter Argon		
Solarban® 72 Starphire® Solar Control Low-E Glass							
Solarban® 72 (2) Starphire® + Starphire®*	71	13	13	0.29	0.24	0.30	2.37

* Data based on using Starphire® glass for both interior and exterior lites.

All performance data calculated using LBNL Window 7.3 software, except European u-value, which is calculated using WinDat version 3.0.1 software.

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.

Simulation provided is not NHRC approved.

For more information about Solarban® low-e glass and other Cradle to Cradle Certified™ architectural glasses by Vitro Glass, visit vitroglazings.com, or call 1-855-VTRO-GLS (887-6457).

