

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

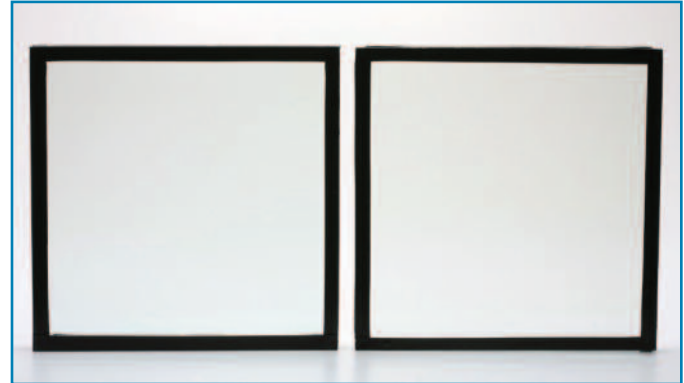
In a standard one-inch insulating glass unit, **Solarban 72 Starphire** glass boasts Visible Light Transmittance (VLT) approximating that of **Solarban 60** on **Starphire** glass, yet it offers 25 percent better solar control. **Solarban 72 Starphire** glass also has solar control characteristics that 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:

Engineered for Starphire Glass

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

To maximize clarity and visible light transmittance, **Solarban 72 Starphire** glass insulating glass units feature one lite with an advanced triple-silver coating that is engineered for use on a **Starphire** glass substrate and one lite of uncoated **Starphire** glass. Thanks to a proprietary low-iron formulation developed by PPG, **Starphire** glass has been the most transparent architectural glass in the industry since it was introduced more than 20 years ago.



Designed for exceptional transparency, Solarban 72 Starphire glass (left) has visible light transmittance of 71 percent that is comparable to Solarban 60 Starphire glass (right), yet offers 25 percent better solar control.

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 PPG, **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, PPG also is a pioneer of developing innovative technologies that reduce energy consumption during the glass-making process. PPG 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.

PPG 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 ^{CM}	Enhance energy performance of building Connectivity to natural lighting and the outdoors Selection of environmentally focused product evaluation

Fabrication and Availability

Solarban 72 Starphire

glass is available through more than 65 locations



of the **PPG Certified Fabricator[®] Network**. PPG 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 just one of the **Ecological Solutions from PPG[™]**. For more information or to obtain samples, call **1-888-PPG-IDEA (774-4332)**, or visit www.ppgideasces.com.



All PPG architectural glass is **Cradle to Cradle Certified[™]**

PPG IdeaScapes[®] Integrated products, people and services to inspire your design and color vision.



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.

Solarban[®] 72 Starphire Glass Performance — Commercial Insulating Glass Unit Comparisons Using 1/4" (6mm) Glass

Insulating Vision Unit Performance Comparisons 1-inch (25mm) units with 1/2-inch (13mm) airspace and two 1/4-inch (6mm) lites, as shown below											
Glass Type	Transmittance			Reflectance		(BTU/hr•ft ² •F) NFRC U-Value		U-Value EN 673 (W/m ² •K)	Shading Coefficient	Solar Heat Gain Coefficient	Light to Solar Gain (LSG)
	Ultra-violet %	Visible %	Total Solar Energy %	Visible Light %	Total Solar Energy %	Winter Night-time	Summer Day-time				
SOLARBAN[®] 72 STARPHIRE Solar Control Low-E Glass											
SOLARBAN 72 (2) STARPHIRE*	9	71	28	13	51	0.29	0.27	1.5	0.34	0.30	2.37

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

All performance data calculated using LBNL Window 6.3 software and PPG Modeling software with version 18.0 of the International Glazing Database. For detailed information on the methodologies used to calculate the aesthetic and performance values in this table, please visit www.ppgideasces.com or request our Architectural Glass Catalog.

Simulation provided is not NHRC approved.

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