



Fabrication

Using **Solarban® R100** glass as a second-surface coating on a clear or tinted substrate requires that the glass be heat-treated. These products, which are made to order, are sold exclusively through the more than 65 members of the PPG Certified Fabricator Network. All PPG Certified Fabricators are equipped to meet tight construction deadlines and can accelerate the delivery of replacement glass during and after construction.



Additional Resources

Solarban R100 solar control, low-e glass is just one of the **EcoLogical Building Solutions** from PPG. For more information or to obtain samples of **Solarban R100** glass, call **1-888-PPG-IDEA**, or visit www.ppgideasces.com. All PPG architectural glass is Cradle to Cradle Certified.™



Solarban R100 glass balances reflectivity and color-neutrality to harmonize with colorful spandrels and other building materials. The sample on the left has been opacified to simulate the exterior appearance of Solarban R100 glass on a building during daylight hours.

Solarban® R100 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•ft²•F) NFRC U-Value		U-Value EN 673 (W/m²•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® R100 Solar Control Low-E Glass											
SOLARBAN R100 (2) STARPHIRE*	16	44	21	33	57	0.29	0.27	1.55	0.27	0.23	1.87
SOLARBAN R100 (2) + Clear	12	42	19	32	41	0.29	0.27	1.55	0.27	0.23	1.79
SOLARBAN R100 (2) SOLEXIA + Clear	6	36	15	25	17	0.29	0.27	1.55	0.24	0.21	1.72
SOLARBAN R100 (2) ATLANTICA + Clear	3	32	12	21	11	0.29	0.27	1.55	0.22	0.19	1.67
SOLARBAN R100 (2) CARIBIA + Clear	5	32	12	20	11	0.29	0.27	1.55	0.22	0.19	1.67
SOLARBAN R100 (2) AZURIA + Clear	8	32	12	21	11	0.29	0.27	1.55	0.22	0.19	1.66
SOLARBAN R100 (2) OPTIBLUE + Clear	8	30	15	19	31	0.29	0.27	1.55	0.23	0.20	1.50
SOLARBAN R100 (2) PACIFICA + Clear	3	20	9	11	9	0.29	0.27	1.55	0.19	0.16	1.24
SOLARBAN R100 (2) SOLARBLUE + Clear	6	26	12	15	17	0.29	0.27	1.55	0.22	0.19	1.40
SOLARBAN R100 (2) SOLARBRONZE + Clear	5	25	12	15	21	0.29	0.27	1.55	0.21	0.18	1.38
SOLARBAN R100 (2) SOLARGRAY + Clear	5	21	10	12	16	0.29	0.27	1.55	0.19	0.17	1.23

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

All performance data calculated using LBNL Window 5.2 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 www.ppgideasces.com or request our Architectural Glass Catalog.

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