

Solarban® 60 Solar Control Low-E Glass by PPG was engineered to control solar heat gain, which is essential to minimizing cooling costs. In a standard one-inch insulating glass unit, **Solarban 60** glass offers an exterior appearance similar to clear, uncoated glass.

With an excellent Solar Heat Gain Coefficient (SHGC) of 0.38, **Solarban 60** glass blocks 62% of the total solar energy while allowing 70% of the visible light to pass through. This combination produces an exceptional Light to Solar Gain (LSG) ratio of 1.85, along with excellent insulation performance, as evidenced by its 0.29 winter nighttime U-Value.

Aesthetics Options

In addition to functioning as a clear glass, **Solarban 60** glass can also be combined in insulating glass units with an outboard lite of PPG tinted or reflective-tinted glass to increase aesthetic and performance options (see performance data on back).

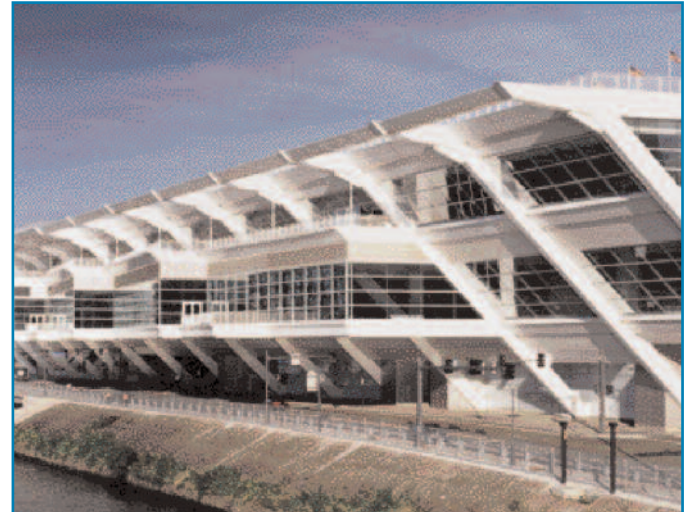
Sustainable Design and Architectural Glass

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 60** glass gives architects and building owners a tool to reach their design objectives.

In addition to making products that support sustainable design, PPG is also a pioneer in 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 byproducts and by shipping its materials on reusable steel racks.

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

With **Solarban 60** glass, sustainable design and LEED credit opportunities are provided according to the following criteria:



The David L. Lawrence Convention Center in Pittsburgh, the world's largest Gold LEED-certified building, features Solarban 60 glass as well as environmentally progressive PPG coatings and paint.

Architect: Rafael Vinoly Architects

Glass Contractor: Ajay Glass

Glass Fabricator: J.E. Berkowitz, LP and Pdc Glass and Metal Services, Inc.



Solarban 60 glass gives the Salt Lake City Public Library energy savings along with a brilliant transparent aesthetic.

Architect: CVCBO Architecture L.L.C. and Moshe Safdie & Associates

Glazing Contractor: Steel Encounters

Glass Fabricator: Northwestern Industries, Inc.

LEED / Green Design Category	Feature	Benefit
Optimizing Energy Performance Daylight & Views Innovation in Design	Excellent SHGC, U-value, and Tvis performance Tvis comments MBDC Cradle-to-Cradle Certification	Enhance energy performance of building design Connectivity to natural lighting and the outdoors Selection of environmentally-focused product evaluation

Fabrication and Availability

Solarban 60 glass can be heat-strengthened, tempered and laminated and is readily available as a standard product. Like other high-performance PPG architectural glasses, **Solarban 60** glass is available through more than 60 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.



Additional Resources

Solarban 60 glass is just one of the **EcoLogical Building Solutions** from PPG. For more information, or to obtain samples of **Solarban 60** glass, call 1-888-PPG-IDEA, or visit www.ppgideascesapes.com. All PPG architectural glass is Cradle to Cradle Certified.[™]



PPG IdeaScapes.™ Integrated products, people and services to inspire your design and color vision.

Solarban[®] 60 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		U-Value (Imperial)		European U-Value	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[®] 60 Solar Control Low-E Glass											
SOLARBAN 60 (2) STARPHIRE*	25	74	38	11	43	0.29	0.27	1.55	0.46	0.40	1.85
SOLARBAN 60 (2) + Clear	19	70	33	11	29	0.29	0.27	1.55	0.44	0.38	1.85
SOLEXIA + SOLARBAN 60 (3) Clear	10	61	25	11	11	0.29	0.27	1.55	0.42	0.36	1.70
ATLANTICA + SOLARBAN 60 (3) Clear	5	53	20	9	7	0.29	0.27	1.55	0.35	0.30	1.78
CARIBIA + SOLARBAN 60 (3) Clear	8	54	20	9	7	0.29	0.27	1.55	0.35	0.31	1.74
AZURIA + SOLARBAN 60 (3) Clear	13	54	21	9	7	0.29	0.27	1.55	0.36	0.31	1.75
PACIFICA + SOLARBAN 60 (3) Clear	5	34	15	6	7	0.29	0.27	1.55	0.29	0.25	1.36
SOLARBLUE + SOLARBAN 60 (3) Clear	10	45	21	8	13	0.29	0.27	1.55	0.37	0.32	1.39
SOLARBRONZE [®] + SOLARBAN 60 (3) Clear	8	42	20	7	17	0.29	0.27	1.55	0.36	0.31	1.36
SOLARGRAY + SOLARBAN 60 (3) Clear	8	35	17	7	13	0.29	0.27	1.55	0.32	0.28	1.26
OPTIGRAY 23 + SOLARBAN 60 (3) Clear	3	18	9	5	6	0.29	0.27	1.55	0.21	0.18	1.02
GRAYLITE + SOLARBAN 60 (3) Clear	2	11	7	5	10	0.29	0.27	1.55	0.20	0.17	0.64
VISTACOO[™] Glass with SOLARBAN[®] 60 Solar Control Low-E (3)											
VISTACOO (2) AZURIA + Low-E	11	42	16	20	11	0.29	0.27	1.55	0.30	0.26	1.61
VISTACOO (2) CARIBIA + Low-E	7	42	16	20	11	0.29	0.27	1.55	0.29	0.25	1.66
VISTACOO (2) PACIFICA + Low-E	4	26	12	11	9	0.29	0.27	1.55	0.24	0.21	1.23
VISTACOO (2) SOLARGRAY + Low-E	7	27	14	11	15	0.29	0.27	1.55	0.28	0.24	1.13
SOLARCOOL[®] Glass (Reflective) with SOLARBAN[®] 60 Solar Control Low-E (3)											
SOLARCOOL (2) SOLEXIA + Low-E	3	24	10	24	15	0.29	0.27	1.55	0.22	0.19	1.26
SOLARCOOL (2) CARIBIA + Low-E	2	21	8	19	10	0.29	0.27	1.55	0.19	0.16	1.30
SOLARCOOL (2) AZURIA + Low-E	4	21	8	19	10	0.29	0.27	1.55	0.19	0.16	1.31
SOLARCOOL (2) PACIFICA + Low-E	2	13	6	10	8	0.29	0.27	1.55	0.17	0.15	0.89
SOLARCOOL (2) SOLARBLUE + Low-E	3	17	9	14	15	0.29	0.27	1.55	0.21	0.18	0.97
SOLARCOOL (2) SOLARBRONZE + Low-E	3	17	9	14	18	0.29	0.27	1.55	0.21	0.18	0.92
SOLARCOOL (2) SOLARGRAY + Low-E	2	14	7	11	14	0.29	0.27	1.55	0.19	0.16	0.86
SOLARCOOL (2) GRAYLITE + Low-E	1	4	3	5	10	0.29	0.27	1.55	0.14	0.12	0.36

* 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.ppgideascesapes.com or request our Architectural Glass Catalog.

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