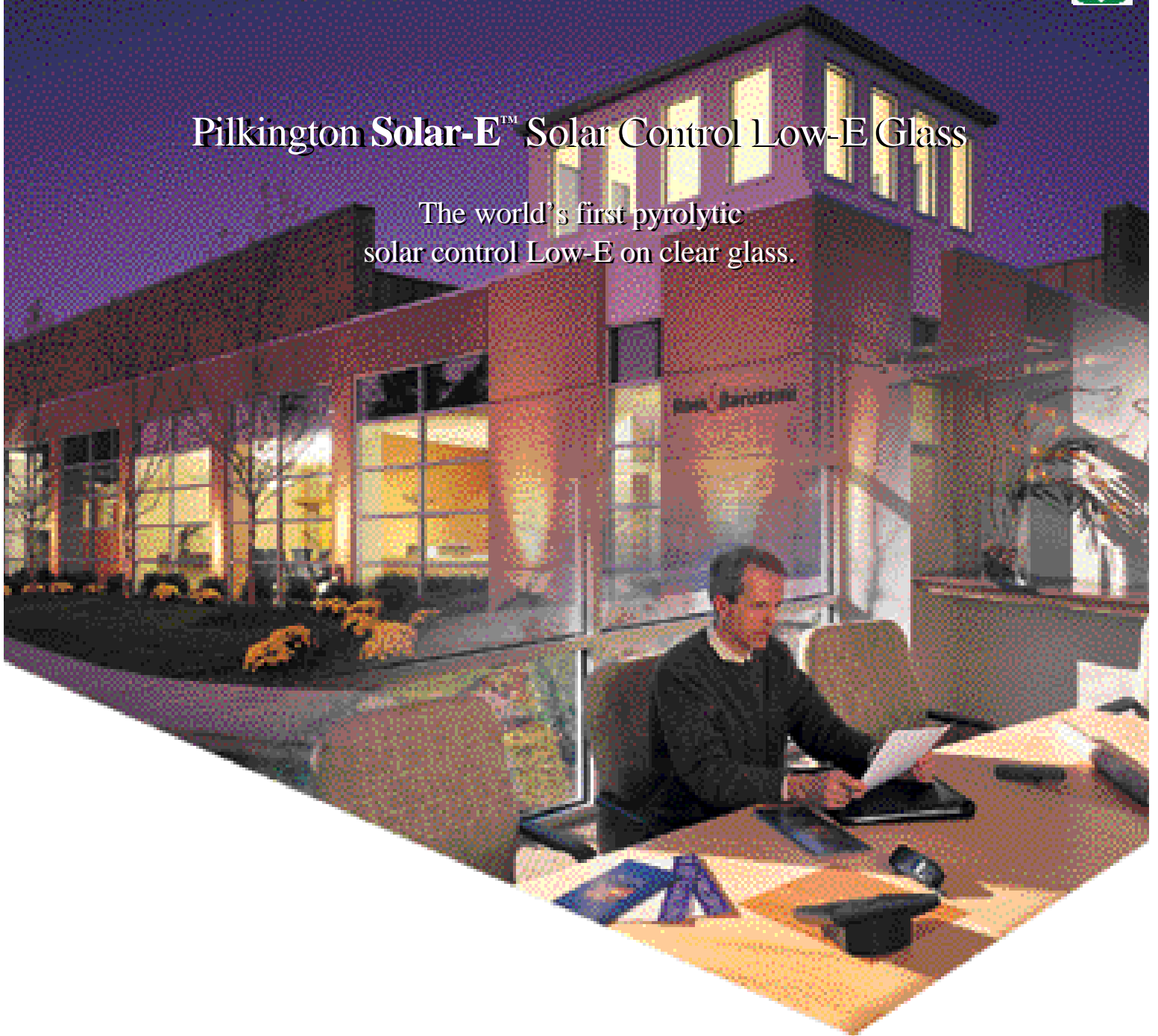




Pilkington Solar-E™ Solar Control Low-E Glass

The world's first pyrolytic
solar control Low-E on clear glass.



First in Glass™

Pilkington Solar-E™ Solar Control Low-E Glass

Designed for low reflectance,
exceptional thermal performance
and improved solar control.



1" (25mm) I.G. with 1/4" (6mm) Pilkington Solar-E™ Solar Control Low-E Glass outboard, coating on #2 surface, and 1/4" (6mm) Pilkington Optifloat™ Clear Glass inboard.

Ross & Baruzzini; Webster Groves, Missouri
Owner/Developer: Schlafly Corp.; St. Louis, Missouri
Architect: Ross & Baruzzini; Webster Groves, Missouri
General Contractor: Ross & Baruzzini; Webster Groves, Missouri
Glazing Contractor: St. Charles Glass; St. Louis, Missouri
Fabricator: SCG Industries; St. Louis, Missouri



First in Glass™

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Product Description

The world's first pyrolytic solar control Low-E glass and recipient of the prestigious R&D 100 award, Pilkington Solar-E™ Glass is the perfect solution for meeting cooling load requirements and other energy code programs.

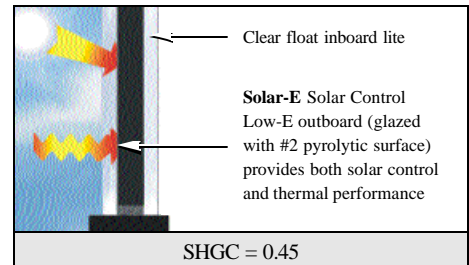
Manufactured using a unique chemical vapor deposition method, Pilkington Solar-E™ Glass features an integral pyrolytic surface which provides superior fabricating and handling qualities. As a result, the glass can be handled, cut and tempered, and offers unlimited shelf life. In addition, no edge deletion or special handling is required.

Product Features

- OPTIMIZES SOLAR CONTROL and energy efficiency of clear I.G. units to create an excellent Pilkington Sun Management™ Glass System.
- REDUCES HEAT GAIN, with an I.G. solar heat gain coefficient (SHGC) of only 0.45, compared to SHGCs of 0.70 for clear float and 0.61 for Pilkington Energy Advantage™ Low-E Glass.
- DURABLE PYROLYTIC SURFACE offers all the benefits of pyrolytic glass, including unlimited shelf life, excellent availability for reduced lead times, easy fabrication and heat treatment – and is so durable, it can be used

in monolithic applications. Please see Pilkington Technical Bulletin ATS-143 for specific instructions on monolithic applications.

- CONSISTENT COLOR AESTHETICS maintained when Pilkington Solar-E™ Glass is combined with tints or reflective glasses.
- GOOD LIGHT TRANSMITTANCE for a solar control product. When glazed on the #2 surface in an I.G. unit, Pilkington Solar-E™ Glass provides 54% visible daylight transmittance for undistorted, natural views.
- LOW EXTERIOR REFLECTANCE makes Pilkington Solar-E™ Low-E Glass ideal for use where high reflectance is prohibited or undesirable.
- EXCELLENT AVAILABILITY for significantly reduced lead times, which translates into lower project costs.



When glazed on the #2 surface, Solar-E Glass provides both solar and thermal control. The solar control portion of the Solar-E Glass surface absorbs solar energy, which the Low-E insulating portion then retransmits to the outside.

Solar-E™ Solar Control Low-E Glass Performance Data*

Nominal Glass Thickness	Visible Light		Total Solar Energy		UV	U-Value				European U-Value (K-Value)		Solar Heat Gain Coefficient	Shading Coefficient
	Transmittance %	Reflectance %	Transmittance %	Reflectance %	Transmittance %	Summer		Winter		Air	Argon		
						Air	Argon	Air	Argon				
in.	mm												

Monolithic Glass Performance Data (Solar-E Coating on #2 Surface)

1/8	3.2	59	8	47	8	49	0.68	–	0.73	–	3.6	–	0.55	0.64
5/32	4	61	7	47	8	48	0.68	–	0.73	–	3.6	–	0.55	0.64
3/16	5	61	8	46	8	47	0.68	–	0.73	–	3.6	–	0.54	0.63
1/4	6	60	7	45	7	45	0.68	–	0.73	–	3.6	–	0.53	0.62

Insulating Glass Performance Data

(Solar-E Solar Control Low-E Glass, #2 Surface, and Optifloat™ Clear Float Glass Inner Lite)

1/8	3.2	54	10	40	10	39	0.36	0.31	0.34	0.28	1.8	1.5	0.47	0.55
5/32	4	55	11	39	10	37	0.36	0.31	0.33	0.29	1.8	1.5	0.47	0.54
3/16	5	55	11	38	10	36	0.36	0.31	0.33	0.29	1.8	1.5	0.46	0.54
1/4	6	54	10	36	9	34	0.36	0.31	0.33	0.28	1.8	1.5	0.45	0.52

*Proposed values of Pilkington Solar-E Glass production.