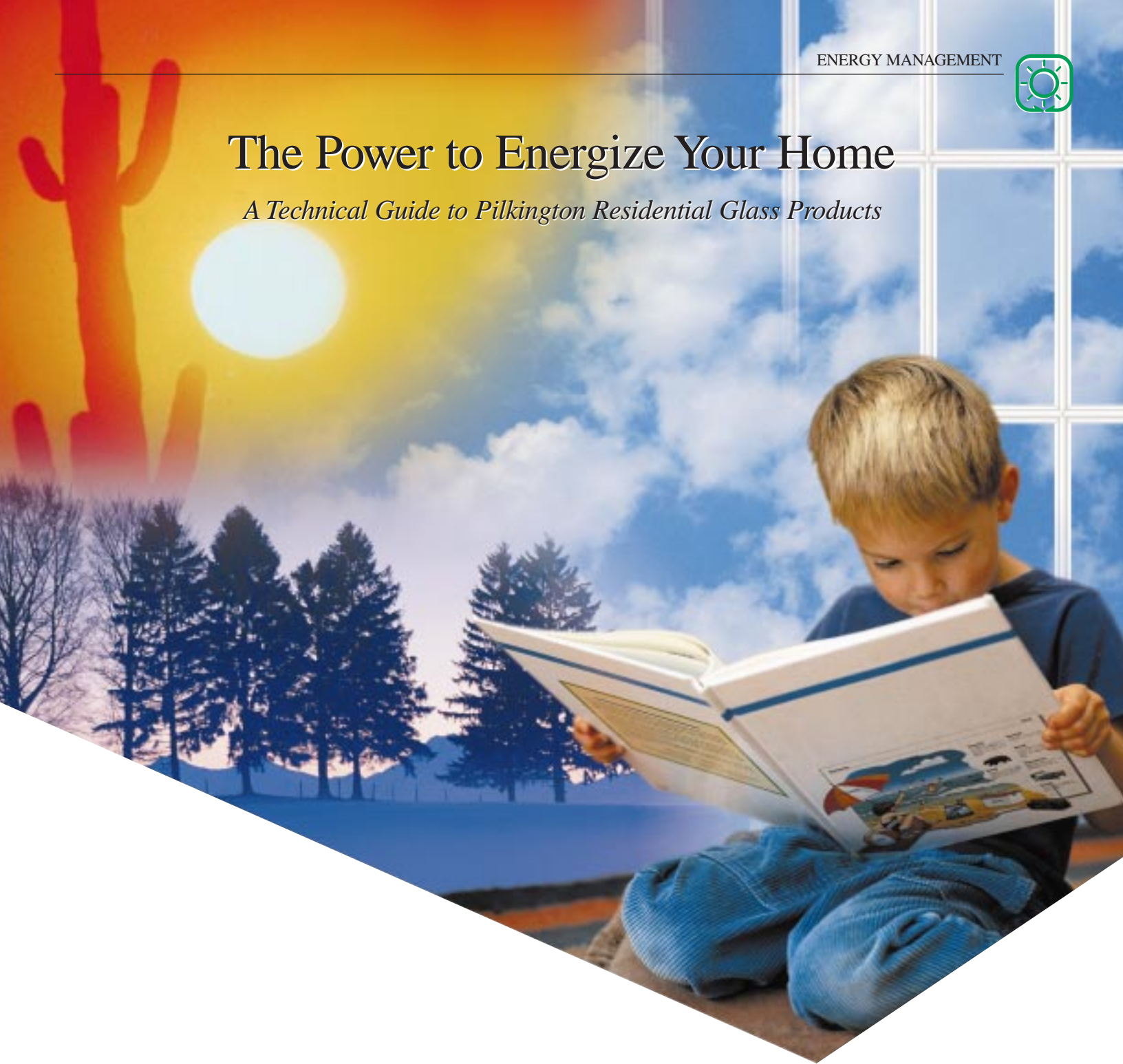




The Power to Energize Your Home

A Technical Guide to Pilkington Residential Glass Products



PILKINGTON



A Glass for All Regions

Pilkington Energy Advantage™ Low-E Glass

Pilkington Solar E™ Solar Control Low-E Glass

Pilkington Optifloat™ Clear Glass

Pilkington EverGreen™ High-Performance Tinted Float Glass

Pilkington SuperGrey™ High-Performance Tinted Float Glass

Pilkington Optifloat™ Grey Tinted Glass

Pilkington Optifloat™ Bronze Tinted Glass

If every part of the country had the same kind of weather, then every window would have the same kind of glass.

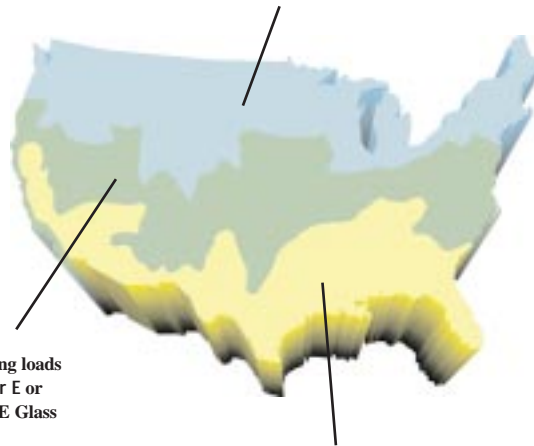
But just as weather varies greatly from one region to the next, so do the requirements of glass and windows.

That's why Pilkington makes a complete family of residential window glass products, including two advanced technology pyrolytic products – each designed for the unique requirements of different climates – that, unlike soft coat products, resist scratching, don't require edge deletion, and have unlimited shelf life and consistent aesthetics.

This allows window manufacturers to create glass combinations with specific thermal and solar control properties. As a result, every window can be optimized for a particular climate and market.

- Pilkington Energy Advantage™ Low-E Glass turns windows into an important source of free energy all winter long by combining excellent thermal control properties and exceptional passive solar qualities in an easy-to-handle, color-neutral pyrolytic glass.

In heating-dominated climates, Pilkington Energy Advantage Low-E Glass gives your windows a competitive advantage by combining high passive solar heat gain in winter with excellent thermal performance all year around.



Where heating and cooling loads are balanced, either Solar E or Energy Advantage Low-E Glass offer premium thermal performance all year around.

In cooling-dominated climates, Pilkington Solar E Solar Control Low-E Glass provides both solar and thermal control in a durable, scratch-resistant pyrolytic product that doesn't degrade or require special handling or edge deletion.

- Pilkington Solar E™ Solar Control Low-E Glass, the world's first pyrolytic solar control Low-E on clear glass, maximizes energy efficiency in cooling-dominated climates by rejecting a significant portion of the sun's energy, which reduces unwanted solar heat gain, keeps homes cooler and lowers summer cooling costs.

- Pilkington High-Performance Tinted Float Glass is a line of products that offers unique aesthetics combined with exceptional performance, including EverGreen™ Glass and SuperGrey™ Glass.

- Pilkington Optifloat™ Glass is available in standard Grey and Bronze tints, giving window manufacturers additional options in appearance and performance. In addition, Pilkington Optifloat Clear Glass is ideal for high light transmittance requirements.

- Pilkington's Sun Management™ System creates synergy by combining High-Performance Tinted Float Glass or Optifloat Tinted Glass with Pilkington Energy Advantage Low-E Glass in insulating glass units.

With Pilkington, window manufacturers now have more glass solutions to choose from than ever before.

Glass for cooling-dominated climates . . . heating-dominated climates . . . in-between climates . . . for performance and aesthetics. Solutions that optimize window performance in different areas of the country.

NOTE: Pilkington EverGreen and SuperGrey High-Performance Tinted Float Glass or Optifloat Tinted Float Glass are ideal for cooling-dominated climates, and also can be used in all areas for aesthetic considerations.

A Glass for All Regions



Pilkington **Solar E** and **Energy Advantage** Low-E Glass products are manufactured using chemical vapor deposition, a patented, on-line process that gives clear float glass a durable pyrolytic surface.

Both pyrolytically surfaced products offer benefits like superior energy efficiency, easy handling, manufacturing efficiencies, higher through-put and overall cost efficiencies.

In contrast, the applied sputtered coating for soft coat glass requires special handling. It is easily scratched. Soft coat glass requires edge deletion. And it can cause inconsistent color aesthetics between annealed and tempered product. All resulting in increased cost and lead time.

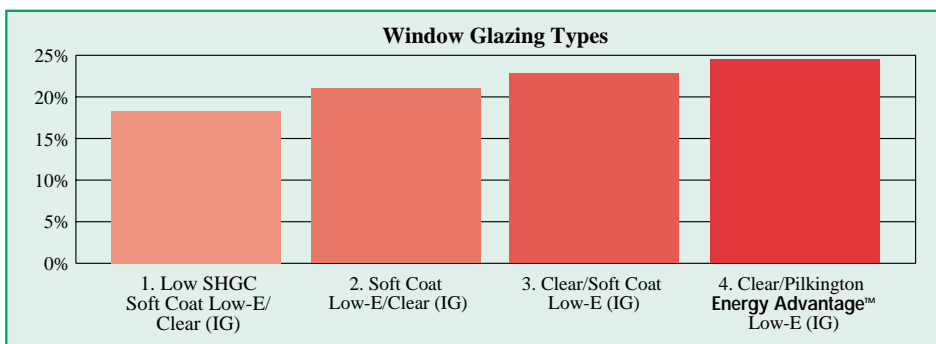
Pilkington **Solar E** and **Energy Advantage** Low-E pyrolytic glass products deliver the performance, aesthetics and cost-effectiveness that today's customers want.

- **DURABLE PYROLYTIC SURFACE** minimizes rubs and scratches and will not oxidize or change color over time, even after tempering. This durability also makes Pilkington pyrolytic glass ideal for storm windows.
- **EASILY FABRICATED**, pyrolytic glass can be handled, cut, bent, tempered, insulated and laminated using standard float glass techniques.
- **POST-TEMPERABLE**, resulting in lead times comparable to clear tempered glass.
- **UNLIMITED SHELF LIFE** allows storage indefinitely, minimizing inventory loss and ensuring availability when and where you need it.
- **NO EDGE DELETION** or special handling is required, allowing you to reduce preparation time and increase through-put.
- **IDEAL FOR** new construction, replacement and renovation applications.



Solar E™ Solar Control Low-E Glass residential project, Anna Maria Island, Florida.

Annual Heating Energy Savings – Northern United States

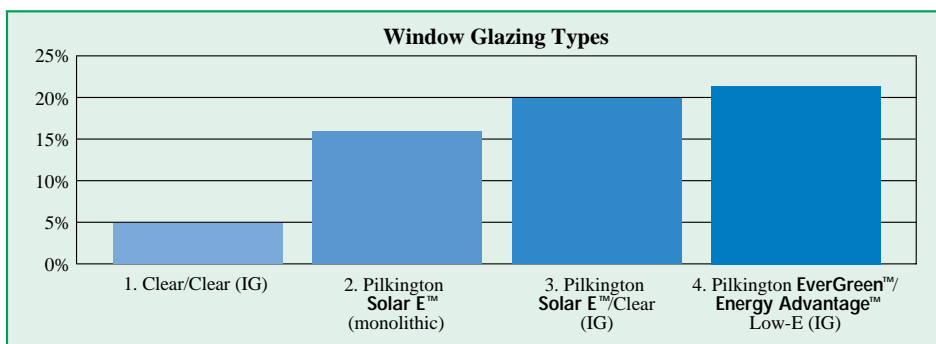


Average for three cities (Burlington VT, Madison WI and Seattle WA) in the Northern United States.
2,000 sf (floor area) house with 300 sf of window area (75 sf of windows on the North, South, East and West elevations). Baseline house with single pane clear glass windows. Energy Analysis Program – LBNL Resfen 3.1.

Annual heating energy savings is based on fixed set of assumptions for the house with only the window glazing U-factor and SHGC varying for each type. The baseline house is glazed with single pane clear glass windows.

1. Low SHGC (solar heat gain coefficient) Soft Coat Low-E outboard, coating on the #2 surface/Clear inboard (insulating glass unit)
2. Soft Coat Low-E outboard, coating on the #2 surface /Clear inboard (insulating glass unit)
3. Clear outboard/Soft Coat Low-E inboard, coating on the #3 surface (insulating glass unit)
4. Clear outboard/Pilkington **Energy Advantage** Low-E inboard, coating on the #3 surface (insulating glass unit)

Annual Cooling Energy Savings – Southern United States



Average for three cities (Miami FL, Fort Worth TX and Phoenix AZ) in the Southern United States.

2000 sf (floor area) house with 300 sf of window area (75 sf of windows on the North, South, East and West elevations). Baseline house with single pane clear glass windows. Energy Analysis Program – LBNL Resfen 3.1.

Annual cooling energy savings is based on fixed set of assumptions for the house with only the window glazing U-factor and SHGC varying for each type. The baseline house is glazed with single pane clear glass windows.

1. Clear outboard/Clear inboard (insulating glass unit)
2. Pilkington **Solar E** (monolithic)
3. Pilkington **Solar E** outboard, coating on the #2 surface /Clear inboard (insulating glass unit)
4. Pilkington **EverGreen** outboard/Pilkington **Energy Advantage** Low-E inboard, coating on the #3 surface (insulating glass unit)



Low-E Glass

Pilkington Energy Advantage™ Low-E Glass

Product Description



Winner of the 1992 Crystal Achievement Award for the “Most Innovative Glazing,” Pilkington **Energy Advantage** Low-E Glass was created using a patented color-suppression process, and is one of the most color-neutral Low-E glass products on the market today.

Specifically designed for heating-dominated climates, Pilkington **Energy Advantage** Low-E Glass turns windows into a source of free energy by combining high passive solar heat gain in winter with excellent thermal performance all year round.

And with its durable pyrolytic surface, Pilkington **Energy Advantage** Low-E Glass can be easily handled, cut, bent, tempered, insulated and laminated using standard float glass processing techniques.

Product Features

- **ENERGY EFFICIENT IN ALL CLIMATES**, Pilkington **Energy Advantage** Low-E Glass provides one of the highest net overall thermal efficiency values of all available Low-E products.

- **REDUCES HEAT LOSS IN WINTER** by reflecting interior heat back into the home, maximizing energy efficiency and reducing heating bills.
- **DURABLE PYROLYTIC SURFACE** gives the glass unlimited shelf life so it can be warehoused for ready availability and will not oxidize or change color over time.
- **POST-TEMPERABLE**, because the durable pyrolytic surface can withstand the required furnace temperatures, allowing for improved lead times and availability.
- **EASILY FABRICATED**, the pyrolytic glass minimizes rubs and scratches; plus edge deletion is not required prior to fabrication.
- **EXCELLENT AVAILABILITY** for significantly reduced lead times, which translates into lower project costs.
- **COLOR NEUTRAL** for design flexibility and compatibility with all building materials.

Pilkington Energy Advantage™ Low-E Glass

Pilkington Solar E™ Solar Control Low-E Glass



The ready availability and fabrication ease of Pilkington Energy Advantage™ Low-E Glass and Pilkington Solar E™ Solar Control Low-E Glass help meet tight construction deadlines.



Low-E Glass



Pilkington Solar E™ Solar Control Low-E Glass

Product Description

Recipient of the 2000 Crystal Achievement Award for “Most Innovative Glazing,” Pilkington **Solar E** Glass is the world’s first pyrolytic solar control Low-E on clear glass. Pilkington **Solar E** Glass is the perfect solution for meeting energy codes and Energy Star® requirements in cooling-dominated climates.

Pilkington **Solar E** Low-E Glass reduces unwanted solar heat gain by rejecting a significant portion of the sun’s solar infrared energy back to the outside, helping to keep homes cooler and lower cooling costs in summer.

The scratch-resistant tough pyrolytic surface provides superior handling and fabricating qualities. In fact, Pilkington **Solar E** Low-E Glass is so durable, you can even use it in monolithic applications, for enhanced performance in a single pane of glass.

Product Features

- *OPTIMIZES SOLAR CONTROL* by rejecting more of the sun’s rays and hot outside air, to keep homes cooler and lower energy costs in summer.
- *EXCELLENT GLARE CONTROL*, for enhanced interior comfort.
- *DURABLE PYROLYTIC SURFACE* offers unlimited shelf life, minimizes rubs and scratches and allows easy fabricating and heat treating.
- *POST-TEMPERABLE*, due to the tough pyrolytic surface.
- *CONSISTENT AESTHETICS*, even when comparing annealed glass to tempered glass.
- *GOOD LIGHT TRANSMITTANCE* for a solar control product, Pilkington **Solar E** Glass also provides an undistorted, natural view.
- *LOW EXTERIOR REFLECTANCE* makes it ideal for residential applications and areas where high-reflectance is undesirable.
- *EXCELLENT AVAILABILITY* for significantly reduced lead times, which translates into lower project costs.

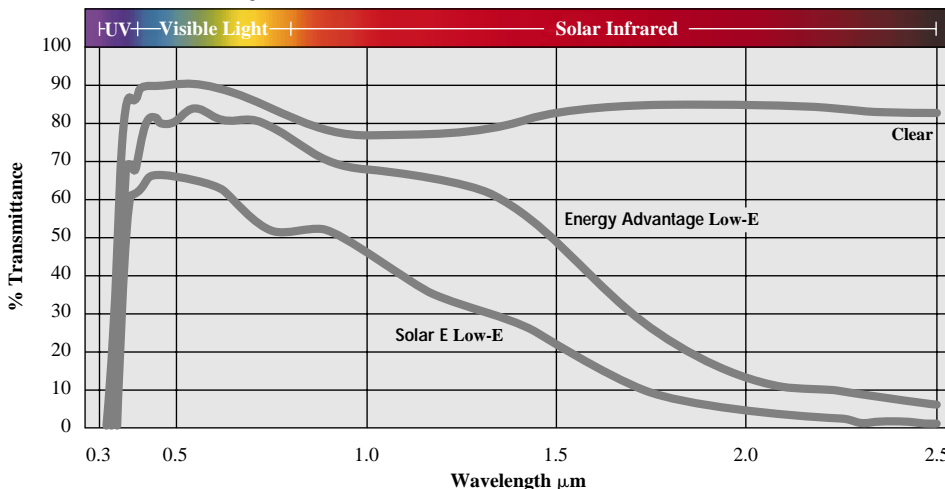


This actual unretouched photograph through Pilkington Solar E Glass (right) and without any glass (left) demonstrates Solar E Glass’ clear aesthetics.



A winner of the 1993 Crystal Achievement Award for Pilkington Energy Advantage Low-E Glass, Pilkington has once again been recognized by *Window & Door* with the 2000 Crystal Achievement Award for Pilkington Solar E Solar Control Low-E Glass.

Solar Energy Transmittance – Pilkington Solar E™, Energy Advantage™ Low-E, and 3mm Optifloat™ Clear Glass



This graph shows how **Solar E** Solar Control Low-E Glass reduces solar heat gain by blocking most of the solar infrared wavelengths while still transmitting a high percentage of visible light. **Energy Advantage** Low-E Glass by contrast, transmits significantly more visible and infrared energy. This is the beneficial passive solar heating that it contributes to heating-dominated climates. Clear glass by comparison, transmits the most energy, but lacking a low emissivity coating, it cannot reduce unwanted summer heat gains or costly winter nighttime heat loss.



High-Performance Tinted Float Glass

Pilkington EverGreen™ High-Performance Tinted Float Glass

Pilkington SuperGrey™ High-Performance Tinted Float Glass

Soothing green or deep cool grey . . . color, aesthetics, performance and comfort are featured with these two high-performance tints, both specially created with the interior environment in mind.

Enhanced solar control plus exceptional thermal control are achieved by combining these products with Pilkington **Energy Advantage™** Low-E Glass in insulating glass units to create the Pilkington **Sun Management™** System.

- Pilkington **EverGreen™** High-Performance Tinted Glass
 - Soothing green tint in uncoated float glass
 - High daylight transmittance
 - Low solar heat gain coefficient
 - Inside, it reduces the need for artificial lighting

The cool, natural aesthetics, high daylight transmittance and low solar heat gain of Pilkington EverGreen™ Glass make it a popular choice for cooling-dominated climates.

- Pilkington **SuperGrey™** High-Performance Tinted Glass
 - Enhances visual privacy
 - Softens bright daylight, reduces glare
 - Ideal for use near computers and in skylights
 - Enhances comfort and reduces cooling loads



Float Glass

Pilkington Optifloat™ Glass

Aesthetically pleasing and performance driven, **Optifloat** Grey and Bronze Tinted glasses provide an option for reducing solar heat and UV light transmittance as compared to clear glass.

These benefits are especially apparent when these products are combined into the Pilkington **Sun Management** System with an inboard lite of Pilkington **Energy Advantage** Low-E Glass or Pilkington **Solar E™** Low-E Glass.

However, when maximum daylight and color neutrality are the goals, Pilkington **Optifloat** Clear Glass is perfect for IG applications.

- Pilkington **Optifloat** Bronze Tinted Glass
- Pilkington **Optifloat** Grey Tinted Glass
- Pilkington **Optifloat** Clear Glass

Pilkington Optifloat™ Clear Glass

Pilkington Optifloat™ Grey Tinted Glass

Pilkington Optifloat™ Bronze Tinted Glass



Pilkington Performance Data

Monolithic Glass Performance Data^{1,10}



Product	Nominal Glass Thickness		Visible Light ²		Total Solar Energy ²		UV ²	U-Value ⁵		European U-Value (K-Value) ⁶	Solar Heat Gain Coefficient ⁷	Shading Coefficient ⁸
	in	mm	Transmittance ³ %	Reflectance ⁴ %	Transmittance ³ %	Reflectance ⁴ %	Transmittance ³ %	Summer	Winter			
								Air	Argon			

Uncoated Float Glass

Optifloat Clear	3/32	2.5	90	8	86	8	74	1.03	1.12	5.8	0.87	1.01
	1/8	3	90	8	84	8	71	1.03	1.11	5.8	0.86	1.00
	5/32	4	89	8	81	7	67	1.03	1.10	5.8	0.84	0.98
	3/16	5	89	8	80	7	65	1.03	1.10	5.8	0.83	0.97
Optifloat Grey Tint	1/8	3	61	6	59	6	35	1.09	1.11	5.8	0.69	0.80
	3/16	5	50	6	48	5	25	1.10	1.10	5.8	0.61	0.71
Optifloat Bronze Tint	1/8	3	68	6	65	6	37	1.08	1.11	5.8	0.73	0.85
	3/16	5	60	6	55	6	28	1.08	1.10	5.8	0.66	0.77
EverGreen High-Performance Tint	1/8	3	76	7	49	6	26	1.11	1.11	5.8	0.62	0.72
	3/16	5	73	7	42	5	21	1.11	1.10	5.8	0.57	0.66
SuperGrey High-Performance Tint	1/8	3	25	5	23	4	6	1.15	1.11	5.8	0.44	0.51
	3/16	5	12	4	11	4	2	1.16	1.10	5.8	0.36	0.42

Solar E™ Solar Control Low-E Glass

Solar E Solar Control Low-E (2)*	3/32	2.5	58	7	47	8	51	0.68	0.74	3.6	0.55	0.64
	1/8	3	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

Energy Advantage™ Low-E Glass⁹

Energy Advantage Low-E (2)*	3/32	2.5	83	11	70	11	59	0.63	0.74	3.7	0.73	0.85
	1/8	3	82	11	68	11	56	0.63	0.74	3.6	0.72	0.83
	5/32	4	82	10	67	10	54	0.63	0.73	3.6	0.70	0.82
	3/16	5	83	11	67	11	53	0.63	0.73	3.6	0.70	0.82

Insulating Glass Performance Data^{1,10}

[Insulating units constructed of equal glass thicknesses and 1/2" (12mm) airspace]

Product	Nominal Glass Thickness		Visible Light ²		Total Solar Energy ²		UV ²	U-Value ⁵				European U-Value (K-Value) ⁶	Solar Heat Gain Coefficient ⁷	Shading Coefficient ⁸
	in	mm	Transmittance ³ %	Reflectance ⁴ %	Transmittance ³ %	Reflectance ⁴ %	Transmittance ³ %	Summer	Winter					
								Air	Argon	Air	Argon			

Uncoated Float Glass Outer Lite and Clear Float Glass Inner Lite

Optifloat Clear	3/32	2.5	82	15	74	14	60	0.55	–	0.49	–	2.8	–	0.78	0.91
	1/8	3	81	15	71	13	56	0.55	–	0.49	–	2.8	–	0.76	0.89
	5/32	4	80	15	67	13	52	0.55	–	0.49	–	2.8	–	0.74	0.86
	3/16	5	79	15	65	12	49	0.55	–	0.49	–	2.8	–	0.72	0.84
Optifloat Grey Tint	1/8	3	55	9	50	8	29	0.57	–	0.49	–	2.8	–	0.58	0.67
	3/16	5	45	8	39	7	21	0.57	–	0.49	–	2.8	–	0.49	0.57
Optifloat Bronze Tint	1/8	3	62	10	55	9	31	0.56	–	0.49	–	2.8	–	0.62	0.73
	3/16	5	53	9	45	8	23	0.57	–	0.49	–	2.8	–	0.55	0.64
EverGreen High-Performance Tint	1/8	3	69	12	42	8	23	0.57	–	0.49	–	2.8	–	0.51	0.59
	3/16	5	65	11	36	7	17	0.57	–	0.49	–	2.8	–	0.45	0.53
SuperGrey High-Performance Tint	1/8	3	22	5	20	5	6	0.59	–	0.49	–	2.8	–	0.32	0.37
	3/16	5	11	4	9	4	2	0.59	–	0.49	–	2.8	–	0.23	0.26

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

Solar E Solar Control Low-E (2)*	3/32	2.5	53	10	41	10	41	0.36	0.31	0.34	0.29	1.8	1.5	0.47	0.55
	1/8	3	54	10	40	10	39	0.36	0.31	0.33	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

Energy Advantage™ Low-E Insulating Glass Performance Data^{1,10}

[Insulating units constructed of equal glass thicknesses and 1/2" (12mm) airspace]

Product	Nominal Glass Thickness		Visible Light ²		Total Solar Energy ²		UV ²	U-Value ⁵				European U-Value (K-Value) ⁶	Solar Heat Gain Coefficient ⁷	Shading Coefficient ⁸
	in	mm	Transmittance ³ %	Reflectance ⁴ %	Transmittance ³ %	Reflectance ⁴ %	Transmittance ³ %	Summer	Winter					
								Air	Argon	Air	Argon			

Uncoated Float Glass Outer Lite and Energy Advantage Low-E Glass Inner Lite (#3 Surface)

Optifloat Clear	3/32	2.5	76	18	61	18	48	0.36	0.30	0.34	0.29	1.8	1.5	0.72	0.84
	1/8	3	75	18	58	17	45	0.36	0.30	0.34	0.29	1.8	1.5	0.70	0.82
	5/32	4	74	17	55	16	42	0.36	0.30	0.33	0.28	1.8	1.5	0.69	0.80
	3/16	5	74	17	54	16	40	0.36	0.30	0.33	0.28	1.8	1.5	0.67	0.78
Optifloat Grey Tint	1/8	3	50	10	40	11	23	0.37	0.31	0.34	0.29	1.8	1.5	0.52	0.60
	3/16	5	42	8	32	9	17	0.37	0.31	0.33	0.28	1.8	1.5	0.44	0.51
Optifloat Bronze Tint	1/8	3	57	12	45	12	25	0.36	0.31	0.34	0.29	1.8	1.5	0.56	0.66
	3/16	5	50	10	37	10	19	0.37	0.31	0.33	0.28	1.8	1.5	0.49	0.57
EverGreen High-Performance Tint	1/8	3	63	14	35	10	18	0.37	0.31	0.34	0.29	1.8	1.5	0.45	0.52
	3/16	5	61	13	30	9	14	0.37	0.31	0.33	0.28	1.8	1.5	0.40	0.46
SuperGrey High-Performance Tint	1/8	3	21	5	15	5	4	0.38	0.33	0.34	0.29	1.8	1.5	0.25	0.30
	3/16	5	10	4	7	4	2	0.38	0.33	0.33	0.28	1.8	1.5	0.17	0.20

Energy Advantage Low-E Glass Outer Lite (#2 Surface) and Clear Float Glass Inner Lite

Energy Advantage Low-E (2)*	3/32	2.5	76	17	61	15	48	0.35	0.30	0.34	0.29	1.8	1.5	0.66	0.77
	1/8	3	75	17	58	15	45	0.35	0.30	0.34	0.29	1.8	1.5	0.64	0.75
	5/32	4	74	16	55	14	42	0.36	0.30	0.33	0.28	1.8	1.5	0.62	0.73
	3/16	5	74	17	54	14	40	0.36	0.30	0.33	0.28	1.8	1.5	0.62	0.72

1. **SOME COMBINATIONS OR INSTALLATIONS MAY REQUIRE HEAT TREATING TO PREVENT GLASS BREAKAGE FROM THERMAL STRESS.**

2. Visible, Total Solar and UV data are based on laboratory spectrophotometric measurements weighted by an appropriate weighting function(s) using LBNL Window 4.1 software. The wavelength ranges of the sun's energy used to calculate properties: Visible from 0.38 to 0.78 microns, Total Solar from 0.30 to 2.5 microns and UV from 0.30 to 0.38 microns.

3. Transmittance – Percentage of normally incident visible light or solar energy passing directly through the glazing.

4. Reflectance – Percentage of normally incident visible light or solar energy reflected toward the exterior.

5. U-Value (Btu/hr/sq-ft/°F) – Measure of the heat gain or loss through glazing due to environmental differences between the outdoor and indoor air. U-Values given are center-of-glass values calculated per NFRC 100 standard using LBNL Windows 4.1. Winter U-Values are based on an outdoor temperature of 0°F (-18°C), an indoor temperature of 70°F (21°C) and a 15mph (24kph) wind velocity with no sun. Summer U-Values are based on an outdoor temperature of 89°F (32°C), an indoor temperature of 75°F (24°C), a solar intensity of 248 Btu/hr/sq-ft (789 W/sq-m) and a 7.5mph (12kph) wind. To obtain metric U-Value (W/sq-m/°C), multiply by 5.678.

6. European U-Value (W/sq-m/K) is based on ISO-DP10292 draft standard conditions. (Previously K according to DIN 4701.)

7. Solar Heat Gain Coefficient or SHGC – The ratio of the total solar heat gain through the glass relative to the incident solar radiation. The solar heat gain includes both the solar energy directly transmitted through the glass, plus the solar energy absorbed by the glass and subsequently convected and thermally radiated inward.

8. Shading Coefficient or SC – The ratio of solar heat gain through the glass relative to that through 1/8" (3mm) clear glass at normal incidence. Note that Relative Heat Gain or RHG (Btu/hr/sq-ft), which is the amount of heat gained through the glass at assumed ASHRAE conditions, can be calculated using the following equation: RHG = SC(200)+U-Value (14). To obtain metric RHG (W/sq-m), multiply by 3.154.

9. Use of Pilkington Energy Advantage™ Low-E with the coating on the exposed interior surface may increase the possibility of condensation formation during severe winter conditions.

10. Typical values of Pilkington production are provided.

*Number in parenthesis indicates pyrolytic surface.

Technical Assistance and Information

Your Source for Solutions

The power to energize your home is now at your finger tips, because we've installed comprehensive Pilkington Residential product information and technical reference on the Web at www.pilkington.com/residential.

Or for more personalized assistance, please contact the nearest Pilkington sales or marketing office listed here.



Eastern North America

Atlanta, GA Sales or Marketing Office
Greensboro, NC Sales Office
Philadelphia, PA Sales Office
800 221 0444

Central North America

Toledo, OH Sales Office
Chicago, IL Marketing Office
800 526 6557
Fax 419 247 4573

Western North America

Los Angeles, CA Sales Office
Seattle, WA Marketing Office
800 522 9430

International

Toledo, OH Sales Office
419 247 4852
Fax 419 247 4573

Pilkington Building Products

North America

P.O. Box 799
811 Madison Ave.
Toledo, OH 43697-0799
419 247 3731
Fax 419 247 4517



PILKINGTON

Pilkington Building Products

North America

P.O. Box 799

811 Madison Ave.

Toledo, OH 43697-0799

Telephone 419 247 3731

Fax 419 247 4517

www.pilkington.com/northamerica

www.pilkington.com/residential



"Our customers assemble ENERGY STAR® qualified products using Pilkington's Energy Advantage™ Low-E Glass and Solar E™ Solar Control Low-E Glass."

Note: Due to reproduction and printing limitations, photos may vary from actual glass colors. Please see glass samples from Pilkington.

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