Pilkington **Energy Advantage**™
Thermal Insulation Low-e

PILKINGTON
NSG Group Flat Glass Business

Energy Savings Made Clearer

Pilkington **Energy Advantage™** is one of the clearest choices for low-e technologies available today, with superior thermal control: enhanced insulation and high solar heat gain.

The evolution of Pilkington **Energy Advantage™** has resulted in improved clarity, for superior views and aesthetics. There is no off-angle color as found with common sputter coated glass products.

Pilkington **Energy Advantage™** is one of the clearest choices for a high passive solar heat gain coefficient, high visible light transmittance and brilliant clarity.

Pilkington **Energy Advantage™** currently retains its position as a top performer in the Canadian Energy Rating (ER).

Pilkington **Energy Advantage™** is known as a leading passive solar glazing product in the market. The pyrolytic low-e coating provides thermal insulation by reducing heat loss.

The patented pyrolytic coating saves energy by allowing solar energy to pass through the glazing and enter into the home, while preventing heat loss.

Most sputter coated low-e products reflect solar infrared heat, lowering the solar heat gain and minimizing the benefits of passive solar heat.

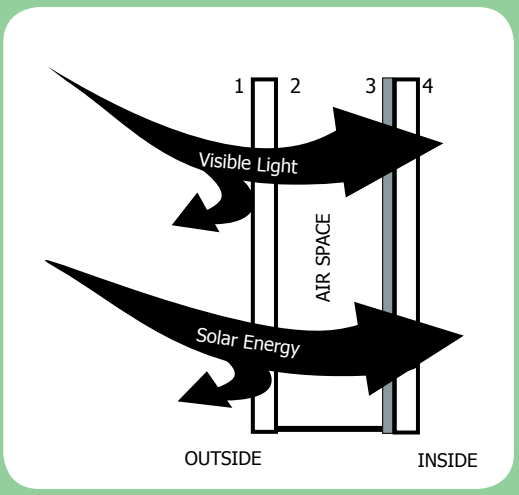
Pilkington **Energy Advantage™** does not reflect as much solar infrared heat as most sputter coated glass products - it allows the beneficial winter heat to easily pass through the glazing.

Features and Benefits

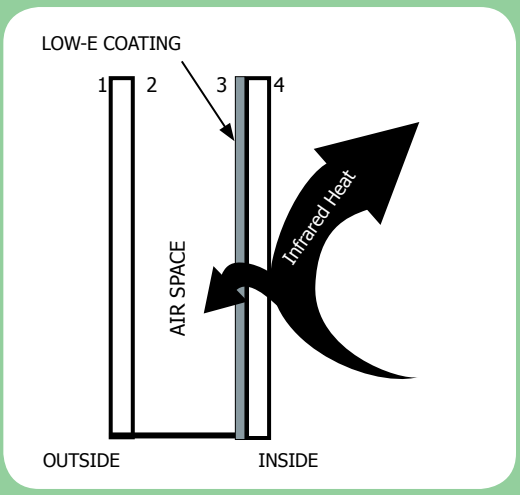
- Energy savings;
- High clarity;
- Passive solar heat gain;
- High light transmittance;
- Durable pyrolytic surface;
- Improve design flexibility;
- Monolithic and insulated glass units;

Here's How Pilkington Energy Advantage™ Works

The Pilkington **Energy Advantage™** coating reduces the emissivity of the surface for better insulation and it allows solar energy to pass through the glass and enter the home.



Pilkington **Energy Advantage™** allows direct solar heat gain to pass through the glazing and prevents heat loss.



The low-e coating directs infrared heat created inside the house, either from absorbed sunshine or generated from a furnace or other heating source, back inside.

Thermal Resistance and Solar Heat Gain of Insulating Glass Units Made with Pilkington **Energy Advantage™** glass

	3 mm Glass	12.7 mm (1/2 in) Spacer Filled with	3 mm Glass	12.7 mm (1/2 in) Spacer Filled with	3 mm Glass	Thermal Resistance (R Factor)*	Solar Gain Factor	Visible Light Thansmitted
Double	**Clear**	Air	**Clear**			**2.0**	**0.81**	**83%**
	Clear	95% Argon	**Low-e**			**3.5**	**0.76**	**77%**
Triple	**Clear**	Air	**Clear**	Air	**Clear**	**3.1**	**0.74**	**76%**
	Clear	95% Argon	**Clear**	95% Argon	**Low-e**	**5.0**	**0.69**	**71%**
	Low-e	95% Argon	**Clear**	95% Argon	**Low-e**	**6.3**	**0.61**	**66%**

All performance values are center-of-glass values calculated by the LBNL Window 5.2 program.

ENERGY STAR

Windows, doors and skylights manufactured with Pilkington **Energy Advantage™** glass provide superior energy efficiency and meet the ENERGY STAR standard.

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