



RESIDENTIAL LOW-E OPTIONS

We have two residential Low-E options: a Passive Solar Low-E Glass and a Solar Control Low-E Glass.

Passive Solar Low-E - Passive Solar Low-E Glass is intended to allow for maximum **capture** of solar heat. Our product is Pilkington Energy Advantage, available in 3/32", 1/8", 3/16", 1/4". Competing products AGC Comfort E2 or PPG Sungate 500. This product is intended for use in heating-dominated climates, typically on the #3 surface to maximize collection and retention of solar energy.

Solar Control Low-E - Solar Control Low-E Glass is intended to **block** solar heat gain. Our product is Guardian ClimaGuard RLE 71/38 available in 1/8" thickness. Guardian SN-68 is the same coating available on 1/4" glass. Competing products are PPG Solarban 60 or AGC Ti-AC 40. This product is typically installed on the #2 surface to minimize solar heat gain, although it can be oriented to the #3 surface to accommodate an outboard tinted glass for increased solar control or to add a colored appearance.

Combined Solar Control Passive Solar - For applications that require the very best U-factor, the two Low-E coated products can be combined in an insulating unit - Solar Control Low-E on the #2 surface and Passive Solar Low-E on the #4 surface (exposed to the interior). The coated surface requires a bit more effort to clean, and this product will be more subject to condensation on the interior glass surface.

<u>CENTER OF GLASS PERFORMANCE</u>						
Insulating Glass with <u>1/2" Airspace</u>	Visible Light <u>Trans.</u>	Ext. <u>Reflect.</u>	Solar Energy <u>Trans.</u>	Winter U-Factor <u>Air/Argon</u>	<u>SHGC</u>	<u>UV Trans.</u>
1/8" Clear	81%	15%	71%	.48/N/A	.76	57%
1/8" Pilkington EA #3	75%	18%	59%	.33/.29	.71	45%
1/8" Pilkington EA #2	75%	17%	59%	.33/.29	.65	45%
1/8" Guardian RLE 71/38 #2	71%	10%	36%	.29/.24	.38	24%
1/8" 71/38 #2-Pilk. EA #4	65%	11%	33%	.23/.20	.37	19%

<u>PRODUCT FEATURES</u>	<u>PILKINGTON ENERGY ADVANTAGE</u>	<u>GUARDIAN CLIMAGUARD RLE 71/38</u>	<u>CLIMAGUARD RLE/ENERGY ADV. COMBINATION</u>
Best U-Factor.....			√
Best Sun Blocker.....		√	
Captures Sun Energy.....	√		
Lowest Cost Low-E.....	√		
Closest Low-E Appearance To Clear Glass.....	√		
Least "Haze".....		√	
Best UV Blocker.....			√
Best Condensation Resistance.....		√	
Easiest to Clean.....	√	√	

We recommend that residential customers be informed of Low-E options and be presented with pictures or samples to ensure proper selection and satisfaction.