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Pilkington **Solar-E™**

HAVANT BOROUGH COUNCIL
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Pilkington **Solar-E™** combines low-emissivity with good solar control; it has a neutral appearance and low light reflectance. Pilkington **Solar-E™** is well suited to applications where high reflectance is prohibited or undesirable. Due to its patented on-line (pyrolitic) coating, Pilkington **Solar-E™** can be handled, processed and toughened using standard techniques. It is made into Insulating Glass Units where it can be combined with many other products within the Pilkington range to further enhance performance.

Pilkington **Solar-E™** is the ideal choice for solar control applications requiring low reflectance and very neutral aesthetics, offering lower costs and ease of processing compared to the alternative off-line coated solar control glass.

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Product features summary

- Good light transmittance and low light reflectance for undistorted, natural views
- Durable on-line coating can be handled, cut, laminated, toughened, heat-strengthened, bent and made into Insulating Glass Units using standard processing techniques
- Colour stability whether toughened or annealed
- Energy efficient, combining low-emissivity with a significantly reduced solar heat gain (43% in a standard Insulating Glass Unit)
- Can be combined with products from the Pilkington range within an Insulating Glass Unit to further improve technical performance
- Can be used in both commercial façades and residential applications
- Available in 6 mm and 8 mm thicknesses in stock sizes up to 5180 x 3300 mm with maximum sizes for toughened and Insulating Glass Units on request.



Pilkington **Solar-E**™ product range and appearance

Product	Appearance in reflection (External view)	Level of reflection†	Appearance in transmission (Internal view)
IGU construction (6 mm external pane – 16 mm – 6 mm Pilkington **Optifloat**™ Clear)			
Pilkington **Solar-E**™	Neutral/Blue	Low	Neutral*

† Level of reflection: Low reflection < 15%, Medium reflection 15-25%, High reflection > 25%
* Coating gives slightly darker appearance which helps reduce transmission of light and heat from the sun.

	Light		Solar Radiant Heat				Shading coefficient			U-value (W/m²K)	
	Transmittance	Reflectance	Direct Transmittance	Reflectance	Absorptance	Total Transmission	Short Wavelength	Long Wavelength	Total	Argon-filled	Air
Double Insulating Glass Unit construction (6 mm external pane – 16 mm cavity – 6 mm Pilkington **K Glass**™)											
Pilkington **Solar-E**™	49	12	34	10	56	43	39	10	49	1.3	1.5
Double Insulating Glass Unit construction (6 mm external pane – 16 mm cavity – 6 mm Pilkington **Optitherm**™ S4)											
Pilkington **Solar-E**™	52	10	33	10	57	42	38	10	48	1.1	1.4

The above performance data has been determined in accordance with EN 410 and EN 673. Solar control coating on surface 2.

The U-value for gas-filled Insulating Glass Units has been based on 90% argon gas fill.

Please note: Solar control glass in annealed form may be subject to thermal stress and a thermal safety check is advisable for all applications.

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CE

CE marking confirms that a product complies with its relevant harmonised European Norm.
The CE marking label for each product, including declared values, can be found at www.pilkington.com/CE

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