

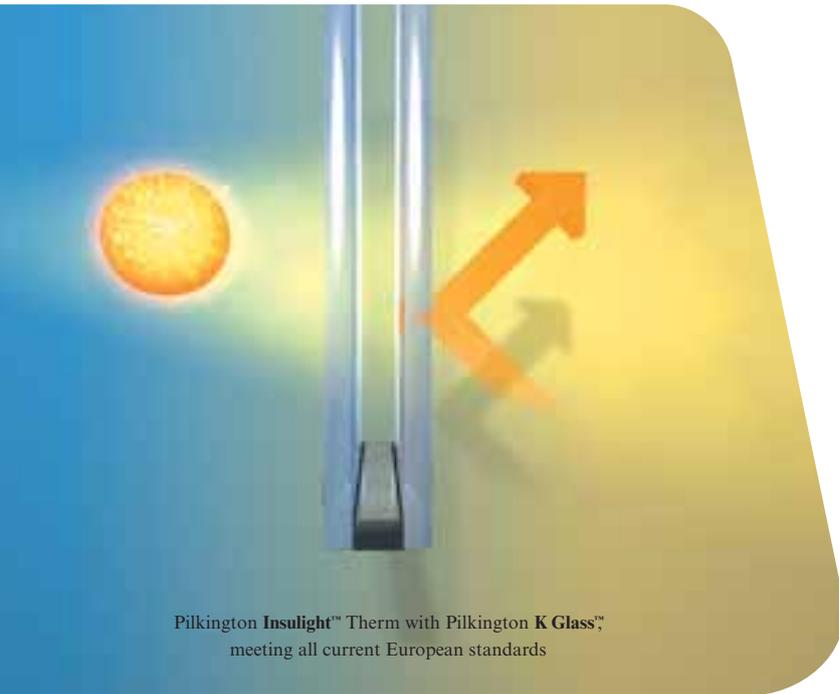
Pilkington **Insulight™** Therm.
Keeping homes warmer.



INSIST ON INSULIGHT



PILKINGTON



Pilkington **Insulight™** Therm with Pilkington **K Glass™**,
meeting all current European standards

To be sure of Pilkington **Insulight™** quality, look for the stamp and the name on the spacer bar.



Pilkington **Insulight™**

When it comes to insulating glass units (IGUs), Pilkington continues to lead the way.

Pilkington **Insulight™**, the name given to our own range of IGUs, are technically advanced, dual sealed insulating glass units compliant with both National and European Standards for insulating glass; (BS) EN 1279. And, because we offer six popular IGU options, specifically designed to meet your individual customer's needs, you get the range of choice and reassurance of quality you expect from a premium brand. So, whatever your glazing requirements, Insist on **Insulight™** every time – just look for the name on the spacer bar.

Pilkington Insulight™ Therm Range

As part of the Pilkington **Insulight™** range, Pilkington **Insulight™** Therm has been specially developed to keep your home warmer. The unit combines either of our finest energy saving glasses – Pilkington **K Glass™** or Pilkington **Optitherm™** – with a unique coating that allows the sun's rays through, but at the same time reflects heat back into the home, significantly reducing heat loss. Pilkington **Insulight™** Therm can be used wherever there is a need for reduced energy consumption and heat loss from domestic windows and conservatories.

We can reduce the amount of heat lost through our glass by 59% and thus help improve our environment.



Certification Mark

When investing in replacement windows, low emissivity glass, such as Pilkington **K Glass™**, is recognised by the Energy Saving Trust as significantly reducing heat loss. It can help windows achieve the Window Energy Rating level C that they need to obtain Energy Saving Recommended status. Energy Efficiency is an Energy Saving Trust Initiative backed by the Government.

Thermal efficiency

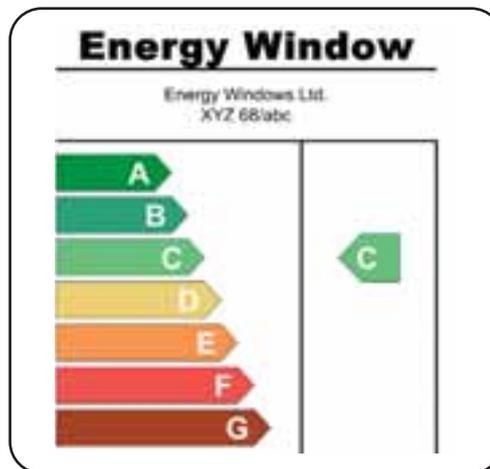
Window Energy Ratings (WERs) are the Government-backed method of assessing and ranking the energy efficiency of a complete window. Taking into account the window's U value, solar gain and air infiltration, the scheme allows easy comparison of the overall energy efficiency of different competing products. There are a number of ways in which the energy performance of an IGU can be improved, thus gaining a higher Window Energy Rating:

- **Argon filling** – significantly improves U value properties
- **Warm edge spacer** – improves U value properties and reduces internal condensation at the edges
- **Low iron glass** – Pilkington **Optiwhite™** used as the outer pane of a double glazed unit improves its solar gain properties

How is heat loss measured?

Traditionally, heat loss is measured by the thermal transmittance or U value, usually expressed in W/m²K. In its most basic terms, the lower the U value, the greater the thermal insulation.

The table below shows the U values of Pilkington **Insulight™** Therm incorporating both Pilkington **K Glass™** and Pilkington **Optitherm™** SN.



Insulating Glass Unit Performance

Product description	K Glass™				Optitherm™ SN			
	4mm or 6mm inner pane to match outer pane thickness							
	Air		Argon		Air		Argon	
	u	g	u	g	u	g	u	g
Pilkington Optifloat™ Clear								
4mm	1.7	0.72	1.5	0.72	1.4	0.63	1.2	0.63
6mm	1.7	0.68	1.5	0.68	1.4	0.61	1.2	0.61
Pilkington Optiwhite™								
4mm	1.7	0.77	1.5	0.77	1.4	0.67	1.2	0.67
6mm	1.7	0.75	1.5	0.76	1.4	0.66	1.2	0.67
Pilkington Activ™								
4mm	1.7	0.69	1.5	0.69	1.4	0.60	1.2	0.60
6mm	1.7	0.66	1.5	0.66	1.4	0.58	1.2	0.58

Window Performance

IGU Configuration	Typical WER band
4mm Pilkington Optifloat™ Clear / 16mm air / 4mm Pilkington K Glass™	E
4mm Pilkington Optifloat™ Clear / 16mm argon / 4mm Pilkington K Glass™	D
4mm Pilkington Optifloat™ Clear / 16mm argon + warm-edge / 4mm Pilkington K Glass™	C
4mm Pilkington Optiwhite™ Clear / 16mm argon + warm-edge / 4mm Pilkington K Glass™	B

U values are in W/m²K and calculated to BS EN 673.

g = total solar radiant heat transmittance to BS EN 410.

These are examples of standard options but others are available. Contact your Pilkington representative for more details.

Low emissivity soft-coat products such as Pilkington **Optitherm™** SN are interchangeable with Pilkington **K Glass™** for the same results. Window Energy Rating bands are calculated using British Fenestration Rating Council (BFRC) rating equations and standard Glass and Glazing Federation format windows.

Window Energy Rating band A is achievable using specialist product combinations. Ask your representative for details.

This publication, whilst giving a general description of the product and materials, is issued as a guide only. Circumstances applicable to products and materials may vary and Pilkington gives no warranties or representations as to the accuracy or completeness of the publication or as to compliance with it by the products and materials except to the extent expressly confirmed by Pilkington in any contract for their sale. It is the responsibility of the user of this documentation to ensure that the use of the product and materials is appropriate for any particular application and that such application complies with all relevant local and national legislation, standards, codes of practice and other requirements.



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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