

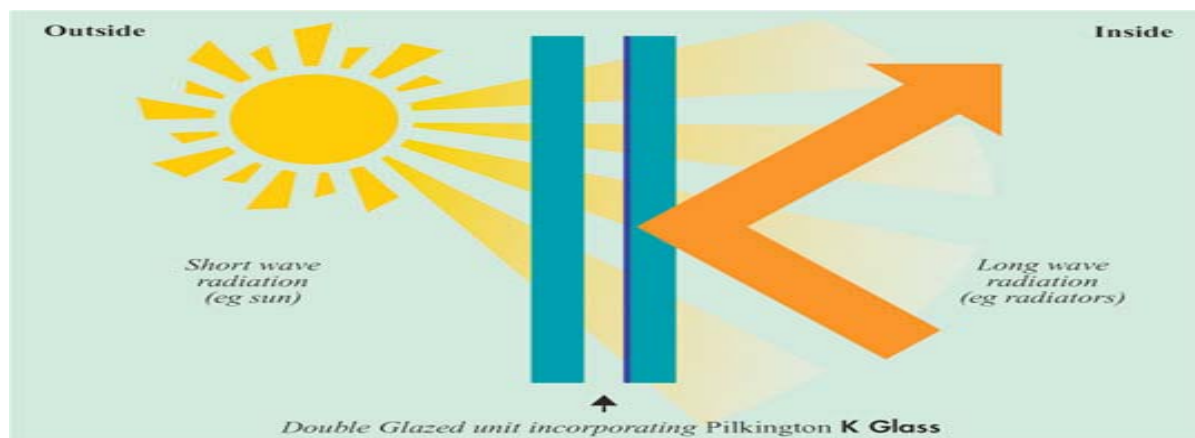
SWADLINCOTE W · I · N · D · O · W · S

At Swadlincote Windows, unlike some other local window companies, we manufacture our own sealed double glazed units. Using quality manufacturing systems, we produce a varied range of unit sizes, including the 28mm unit which is standard with our window and door ranges. A full range of Pilkington Textured Glass is also available, along with leaded, stain and bevel glasswork.



How Pilkington K Glass Works

Pilkington K Glass, which usually forms the inner pane of a double glazing unit, allows less heat to escape through your windows than ordinary glass. This is thanks to a special energy saving coating which lets the sun's rays through, but reflects heat from fires and radiators back into your home. Heat which ordinary double glazing allows to escape (see diagram below).



You're probably wondering how a microscopic coating on a pane of glass can make such a big difference to its performance. This is how it works -

The glass in your windows absorbs heat then radiates it again on the colder, outside surface. Pilkington K Glass has what is called a **low emissivity coating** on the surface that faces into the gap of the double glazing unit.

Low emissivity means the coating is a poor radiator. The heat absorbed by the coated glass is inhibited from radiating across the air gap and then from the outer pane to the cold outside world. Instead the heat is reflected back into the room by the coating, which works in a similar way to a sheet of reflecting foil placed behind a central heating radiator bouncing the heat back into the room.

Warm Edge Technology Produces Superior Double Glazed Units

To maximise the benefits that Pilkington K has on offer, warm edge technology is utilised in the production of double glazed units. Conventionally, a double glazed unit is made using an aluminium spacer bar to separate the two pieces of glass that form the unit. Warm edge spacer is different in that the design of the "spacer bar" means that the aluminium used never comes into contact with the glass. This yields the following benefits -

- Superior thermal performance of the unit
- Increased durability when subjected to UV and water exposure
- Improvement in visibility by reducing condensation
- Saves energy and improves in-home comfort by insulating the frame and glass edge by up to 90% better than conventional spacer systems

So, as you can see, when used in conjunction with Pilkington K glass the quality of our units speaks for itself.