



The width of single glazing.  
The warmth of double glazing.

Pilkington **Spacia™**  
Revolutionary vacuum glazing.



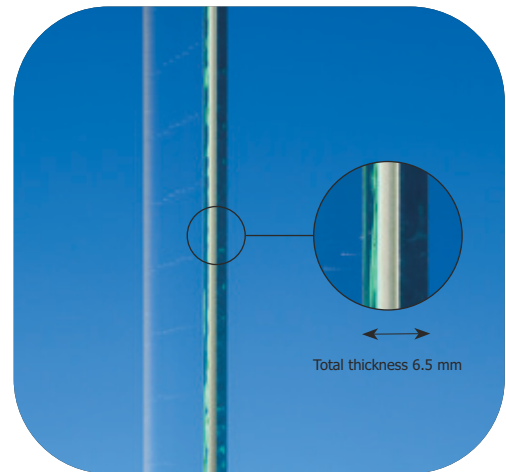
## Pilkington **Spacia**™ Revolutionary vacuum glazing solution.

### Pilkington **Spacia**™ vacuum glazing

Advanced Pilkington **Spacia**™ technology is the World's first commercially available 'Vacuum Glazing'. It provides a similar level of energy efficiency as modern double glazing, but in a unit that is typically only a quarter of the thickness. This brings a new degree of thermal performance to older buildings, and opportunities for thin glazing in new buildings. Pilkington **Spacia**™ offers a real solution to the problem of balancing historical preservation with modern comfort and environmental requirements. It may even allow the use of the original frames as well as authentic copies and in most cases, can be used in secondary glazing applications.

### The importance of energy-efficient glazing

Advances in technology have made windows a significant contributor to the energy efficiency of new homes. Current restrictions, which were put in place to preserve the character of the nation's buildings, in some circumstances prevent the improvement of thermal efficiency by not permitting upgrading from single glazing. So, whilst these properties look appealing, they carry a heavy price in terms of reduced internal comfort levels, high heating costs and carbon footprint. Pilkington **Spacia**™



vacuum glazing can provide a huge step change in window energy efficiency in older properties without sacrificing the style and appearance of the window frames.

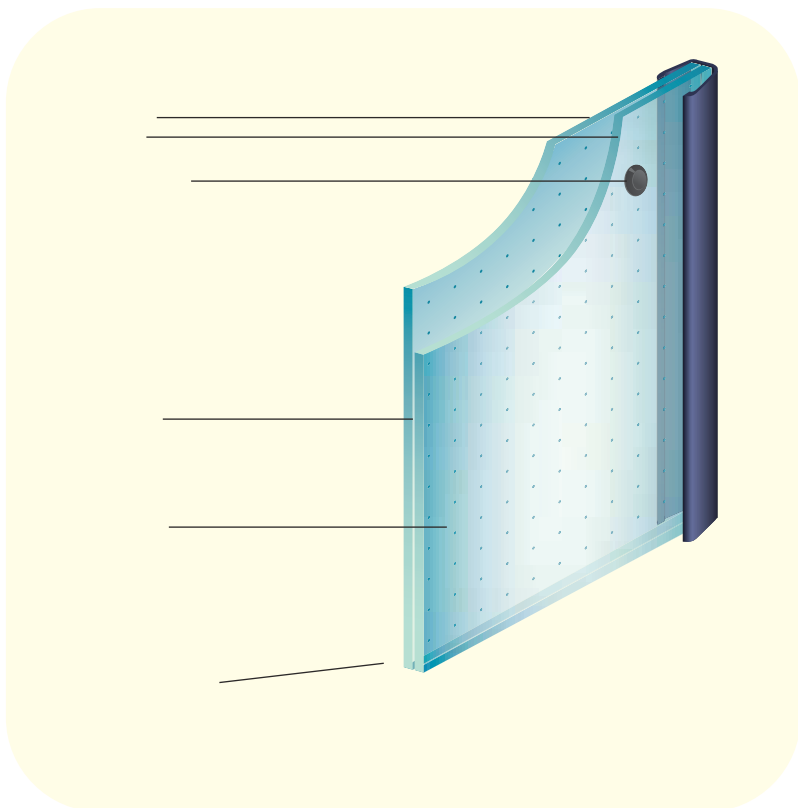
### Protection cap

The vacuum creation process in Pilkington **Spacia**™ results in an extraction point in one of the panes, located 50 mm from the glass edge. This point is covered by a small permanent cap (12 mm diameter), which must remain on the glass surface and should be glazed towards the inside of the building. You can choose to have the cap positioned in any corner of the pane providing this is made clear prior to the order being placed.

*Image courtesy of Gadd Properties Ltd*







### How it works

Pilkington **Spacia™** vacuum glazing consists of an outer pane of low-emissivity glass and an inner pane of clear float glass, separated by a micro spacer grid of small pillars each measuring just 0.5 mm diameter, set 20 mm apart, which are robotically positioned, with 'intelligent' camera checking. This grid ensures that the two glass panes are kept a fixed distance apart. The edges are welded to achieve a hermetic seal. Air is extracted to create a vacuum via the extraction point, rather than being air or gas filled. The result is an excellent thermal performance from a unit that is only slightly thicker than single glass.

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