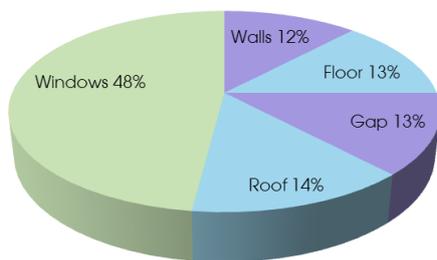# Thermal insulation and secondary glazing

Single-glazed windows in our homes often result in rooms which are difficult and expensive to heat. In fact a large proportion of the heat generated literally goes straight out of the window.

Up to 48% of heat can be lost through windows in a fully insulated home. Ecoease® has a calculated U value of 2.7 using a 20mm gap to the existing single glazing, meaning that you can immediately benefit from a warmer environment.

Keeping your home warm helps you to save money on heating bills and increase energy efficiency. This is vital in reducing your carbon footprint and helping the environment in the long-term.

Single-glazed, fully-insulated house

Walls 12%
Floor 13%
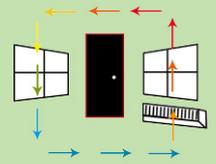Windows 48%
Gap 13%
Roof 14%

Whilst installing double glazing can be an efficient solution to heat loss in many cases, it can also be very expensive, disruptive whilst fitting and is not always in keeping with your property.

Secondary glazing can be even more effective at reducing heat loss than double glazing and is therefore an ideal way to insulate your windows.
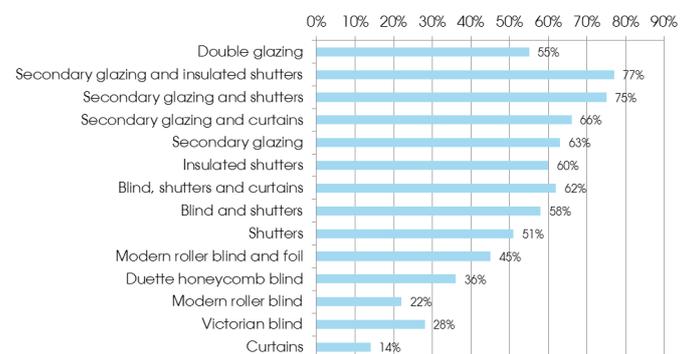

How does **Ecoease** work?

The Ecoease glazing system creates and maintains a sealed layer of static air between it and your existing window. Neatly-edged, clear PET is fitted to the inside frame of the existing window, and held in place using our magnetic system. This trapped airspace reduces the rate of heat loss, and also acts as a baffle to reduce sound transmission. Moreover the air flow through the room is warmer, as PET is an inherently warmer material than glass.

Reduction in heat loss

	Reduction
Double glazing	55%
Secondary glazing and insulated shutters	77%
Secondary glazing and shutters	75%
Secondary glazing and curtains	66%
Secondary glazing	63%
Insulated shutters	60%
Blind, shutters and curtains	62%
Blind and shutters	58%
Shutters	51%
Modern roller blind and foil	45%
Duette honeycomb blind	36%
Modern roller blind	22%
Victorian blind	28%
Curtains	14%

Key benefits of secondary glazing

The insulation benefits of secondary glazing are widely recognised:

• It insulates - heat transfer is significantly reduced, giving warmer rooms
• Significant savings can be made on your heating costs
• Cold spots are reduced, providing greater home living comfort
• Condensation problems are greatly reduced, saving time on morning mop ups and preventing the growth of unhealthy mould and mildew on window frames and curtains