

# **// COUNTY WINDOWS //**



## HOW CAN WE HELP YOU **SAVE ENERGY?**

A Guide To Our Core Products

# SAVING ENERGY

Any kind of home improvement is an investment, adding either short or long term value to any residence. As with any investment, the natural question is going to be 'how does this help me?' At County Windows, the products we install can have a measurable impact on your home's energy saving potential.

In this leaflet, we outline not only the energy saving methods of our core products – Windows, Doors and Conservatories – but also to provide our customers with the knowledge they require to make informed decisions on installations for their homes.

**All the information on this page is strictly relevant to our A-Rated window system.**

## Windows

If you consider that around a fifth of the energy loss from an uninsulated home is through the windows, investing in a system of insulative glazing and frames makes good financial and ecological sense. Since 2010, all of our window products have a mandatory level of insulation. The windows will not only help to conserve heat in your home or business, but can also utilise the solar effect of direct sunlight to warm the space and make additional savings on your bills. This in turn has a positive effect on your carbon emissions.

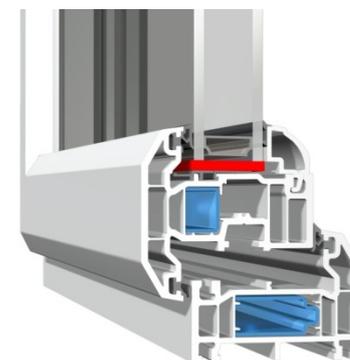
### How is this achieved?

Firstly, the frames. As a material, UPVC has a fairly low level of heat (or cold) conductivity. To reduce any transference of outside temperature in, or inside temperature out, the window frames are constructed in a multi-chamber design. This means more pockets of air and less of a direct route of travel for thermal variants. These chambers also greatly strengthen the frame for added peace of mind.

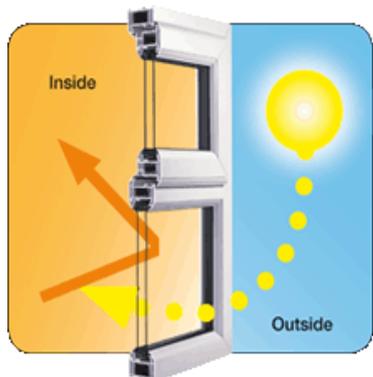
This multi chambered technology is standard across all of our UPVC frames.

Aluminium employs basically the same principles, but being more of an inherent conductor, the chambers are enhanced with a thermal break which greatly improves the frames energy efficiency.

Timber is a natural insulator. The solid and rugged construction is coupled with cutting edge glazing technology to give you an energy rated and beautiful window.



## Glazing



The construction of a double glazed unit and the elements that comprise it work together to provide you with a range of options that can all contribute to giving you a window that actively - and measurably - improves the energy efficiency of your home. The inner pane of glass will generally be a 'Soft Coat', low emissivity (or 'Low-E') insulative piece to keep in any warmth generated inside the room. This works because the coating is a very poor absorber of heat.

The outer pane will be Low Iron. This glass is incredibly clear, allowing more light and heat to pass through. Combinations of these glass types will work together to give your window unit's U-Value. The lower the U-Value, the more energy efficient.

Other parts of the system include Argon gas. Argon is an inert, cost effective gas which has about half the thermal conductivity of air. Filling our units with this gas means that there is less thermal transference. Additionally, warm edge spacers (the joining section between panes) contribute to reduced heat flow. Whereas older, pure aluminium spacer bars can undermine the efficiency of a unit, newer technology actively reduces this weakness.

Overall, a combination of these key factors: the heat loss through the window (*U value*), the solar gain (*g value*), and loss through air leakage around the frame (*L value*) will produce the most suitable energy rating for your windows, based on the prevailing efficiency requirements of the project.

# Conservatories

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Your conservatory is a lifestyle choice. The opportunity to add an extra room for all seasons to your home and invite the outside in. On the whole, a Conservatory is a less expensive installation than an extension and adds ultimate value to your property. So, the question is, does this new room have to cost the earth?

At County Windows, we specialise in Conservatories that use advanced glass technology to retain the warmth of your home and can help prevent overheating in the Summer months.

The frames and walls of your Conservatory have comparable technology to our windows. This includes chambers for strength and insulation, and also a wide array of energy efficient glazing options, depending on the location of the installation.

The area where we can make a significant impact is in the roof glazing. Combining thermal insulation and solar control properties, our roof units come in three systems: Blue, Neutral and Aqua Green.

This range of incredibly high performance glass dramatically reduces solar gain in your Conservatory, preventing things from heating up too much on warm sunny days. However, utilising advance glass technology, we can make sure that heat generated in the property on cold winter days will be kept in, reducing the need for excessive heating and directly reducing your energy costs.

These units are also available as 'Easy-Clean'. The combination of UV Light and rainwater breaks down dirt and prevents these hard to reach areas from becoming unsightly.

Additionally, any building work or brick work will be cavity-insulated on construction adding to the overall performance of your Conservatory. The result is a safe, comfortable and energy conscious installation for your year-round enjoyment.

# Composite Doors

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Replacing your current door with a new composite door has many benefits in terms of longevity and of course, energy savings. Our range of attractive, hard wearing, wood effect doors is proven to have 6 times the insulating properties of timber or UPVC. The doors are heavy like wood but have none of the warping, twisting or bowing tendencies of some inferior timber products. Fitted with attractive and even decorative double-glazing, composite doors are an increasingly popular alternative to wood.

Being a 'composite', the door is constructed from layers. The hard foam insulation between the inner and outer panels is totally HCHC and CFC free, which gives us all peace of mind for the future. These layers combine to give you a door that is incredibly thermally efficient at its core.

On installation, our doors and frames are sealed, making them draughtproof. This has positive implications for your energy bills and long term savings.

Our doors are manufactured and distributed domestically, reducing the carbon footprint compared to using an overseas company. And when you consider the very high build quality, this is a product that will last and last like the best timber, meaning you wont need to replace it for years.



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Please contact us with any questions you may have, or if there is any further information you require, we're happy to help.

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S A V I N G   E N E R G Y

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UPVC. ALUMINIUM. TIMBER.

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