



The UK's most energy efficient Window System



Call us

See how DuraGreen can save money and add value to your property.



The UK's most energy efficient Window System



Choosing better, more
**energy
efficient**
windows

Designed and produced by The Lines Group Ltd, Cheltenham www.linesgroup.co.uk



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A homeowner's guide

DuraGreen

The best

performing windows money can buy

We all want the best from replacement double glazing. That's why DuraGreen windows stand apart. From styling to performance to saving energy, DuraGreen's advanced technologies are engineered to give you a comfortable, secure, quiet, energy-efficient home

Reduce wasted energy. Cut bills.

Choosing DuraGreen windows to replace single glazed or older double glazed units saves money from day one. In fact, it could reduce your heating costs by up to 20% - perhaps worth up to £321 a year*

Choose better looking frames.

DuraGreen windows feature low profiles with reflective spacers - so you can't see them at the window edge. Clear, uncluttered sightlines ensure windows look well proportioned, elegant and attractive.

Stop condensation and noise.

Lower heat loss at window edges makes our glass 3-4°C warmer - cutting condensation by up to 80%. Using high performance gaskets, DuraGreen's double glazing reduces noise pollution, too.

Reduce your carbon footprint. Cut CO₂.

The more energy you use for heating, the more CO₂ you create. That's your 'carbon footprint'. Fitting DuraGreen energy efficient windows could cut your CO₂ production by as much as 1.65 tonnes.*



Our energy efficient windows let you...

- Use less energy
- Save on heating and cooling
- Be comfortable year-round
- Reduce condensation
- Reduce your carbon footprint
- Combat climate change
- Add value to your property

* Replacing single glazed aluminium windows with energy efficient 'C' rated double glazing in an average gas heated bungalow/semi. GGF carbon calculator @ 2% inflation.

Choose technology that keeps you warm - right system, right glass

The images show just how effective fitting energy efficient windows to your property can be. The right hand side of the property still has the original windows - the reds and pinks show heat escaping. However, the new extension on the left is fitted with energy efficient windows, the lack of reds and pinks proving they help dramatically reduce heat loss.



 **DuraGreen**

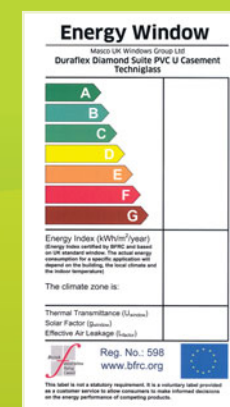
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Understanding Window Energy Ratings

The British Fenestration Rating Council's Domestic Window Energy Rating Scheme provides a way to compare the energy performance of windows on a 'like for like' basis. Windows that achieve a C rating or higher can carry the 'Energy Saving Recommended' tag.

All our Energy Efficient windows achieve C rated or better energy efficiency. Put simply, they're the most energy efficient windows your money can buy. Decide what A, B or C rated performance you want; we'll do the rest.



The next windows you choose could reduce **wasted home energy** by up to

20%

Improve comfort. Reduce energy bills. **Save money.**

If the windows in your home consist of single glazed or older double glazed units, replacing them with our energy efficient windows will save you money. It can reduce the energy you need to heat or cool your home by up to 20%.

Not all windows are the same

Double glazed units from different sources may look similar at a glance – but don't be fooled. Not all windows are the same. If windows aren't efficient they lose valuable, expensive heat. Many units incorporate spacers using metal such as aluminium which acts as a thermal bridge, instantly conducting heat energy through the frame. Others compromise on the insulating quality of the glass or profile. In cold weather, heat energy escapes outside and is wasted. In warm weather, the sun's heat travels through the window and frame making the room uncomfortable.

Energy efficient windows – at the right price
Our energy-efficient window system brings together market leading components to deliver exceptional performance. This means quality glass from Pilkington, the UK leader in architectural glazing. Duralite, the best performing 'warm edge' spacer technology, is used in the sealed unit. DuraGreen window profiles include Q-Lon weather seals, multi chamber construction, high security locking and stainless steel hinges.
Compared to other glazing systems you'll use less energy to maintain a comfortable environment. With the rising cost of fuel, your fuel bills will be lower.
We guarantee to give you a better performing, more energy efficient window – at the right price.



Reduce your energy bills & **cut down** on CO₂ emissions

DuraGreen makes more of ambient heat.

In winter, the energy efficient coated glass used in DuraGreen windows retains warmth within the home. It's also designed to exploit radiant heat energy from the sun. These properties, coupled with excellent thermal insulation, result in significant fuel savings compared to a single glazed dwelling.

Replacing single glazed...	Could save...
...changing timber framed windows to DuraGreen 'C' rated windows saves:	...£140.00 (0.72 tonnes CO ₂)
...changing Aluminium framed windows to DuraGreen 'C' rated windows saves:	...£321.00 (1.65 tonnes CO ₂)

Average gas heated bungalow/semi. GGF carbon calculator @ 2% inflation





Our energy efficient windows **reduce condensation** by as much as

80%



The lower sightlines of DuraGreen blend into the profile, making windows more attractive.

Say goodbye to condensation and noise



Get a better looking, healthier, more comfortable home.

DuraGreen's superior design and insulation makes all the difference. Outside, your home looks smarter. Inside, everyone feels the benefit

Windows with style

Better looking frames

Modern PVC-u and timber windows frequently include low line glazing beads and gaskets. Some protrude into the sightline and are visible at a window's edge.

The DuraGreen glazing system has a low profile. Because it's slim, it doesn't obstruct the sightlines making windows more attractive.

Even better, as the matt black spacer reflects the frame colour, it's almost completely invisible – perfect for recreating more traditional (e.g. Georgian) window styles.



(Above) Slim and effective, DuraGreen glazing can create a wide range of styles.

Reduced condensation

The air in homes often has a high moisture content. Whenever we cook, bathe or even breathe, we increase water vapour.

When saturated air contacts a cold surface, condensation forms, promoting bacterial growth and mould. Both can compound respiratory problems such as asthma.

With lower heat loss at the edges, our windows are typically 3-4°C warmer than those with metal spacer bars, reducing condensation by up to 80%.

Cuts down noise from outside

In today's world, it's difficult to avoid external noise. Whether you live near a major road, under a flight path or near some vocal wildlife, noise pollution can be a cause of major disruption. With double-glazed insulation and our high performance Q-Lon gaskets, DuraGreen Energy Efficient Windows will help reduce external noise pollution.

10 year peace of mind guarantee

- To create the UK's most energy efficient window system, we combine proven technologies and components from world class suppliers.
- Better technology means a longer, maintenance free life.
- Every energy efficient window we install is fully guaranteed against failure for 10 years.



Using less energy
means less

CO₂



Energy efficient windows can **reduce**
your carbon footprint

Choosing energy efficient windows is a simple,
practical way to **make a difference - today**

Using energy for heating (or cooling) dramatically impacts the environment. Generating energy typically produces greenhouse gases such as CO₂. The more energy we use, the more emissions we create

Science suggests man-made emissions play a major role in global warming and, in turn, influence climate change. Home energy use alone accounts for 27% of UK carbon dioxide (CO₂) emissions which contribute to climate change. By making buildings more energy

efficient with windows, we can reduce energy use and prevent energy waste. In the UK alone, fitting better windows could reduce emissions by almost 5 million tonnes.

The Glass and Glazing Federation calculates that if all UK replacement windows installed were Band C rated (like DuraGreen windows) instead of the minimum building regulation specification, each household could save the equivalent energy to making 34,000 cups of tea!

We all need to think and act greener. By insisting on our energy efficient windows, you'll help reduce greenhouse gas emissions. You can help in the challenge to combat climate change and make a lasting difference - today



DuraGreen's lower carbon footprint starts in our factory

Greener manufacture

From the manufacture of DuraGreen sealed units, to our sources of supply, to our support for recycling and recycling initiatives, the DuraGreen system makes sense - environmentally and commercially.

Our energy efficient windows are produced using the award winning BBA and BFRC approved Duraflex profile systems. Duraflex has achieved the ISO 14001 Environment Management System and was awarded the Regional Business of the Year Award in 2007 in recognition of its environmental achievements



How do we do it?

Choose proven technologies for a longer, maintenance-free life – guaranteed.

DuraGreen system components

The spacer

1) Warm edge spacers: Duralite

Up to 80% of a double glazed window's energy loss occurs at the glass edge. Ordinary aluminium spacers are highly conductive. In winter they let heat escape and encourage condensation. That's why DuraGreen windows feature Duralite - a warm edge NON metal spacer. Duralite's advanced composite construction is up to 22x more efficient at preventing heat transfer around window edge. It also has a 60-75% lower vapour transmission rate, increasing window service life.

In thermal efficiency tests with identical glazing specifications, windows with Duralite spacers, as featured in DuraGreen windows, outperformed windows using aluminium or foam. Slim and reflective, Duralite doesn't obstruct sightlines and echoes the frame colour. Tested to EN1279, DuraGreen windows join over 50 million windows worldwide already using Duralite spacer technology.

The DuraGreen profile

2) Q-Lon weather seals

DuraGreen windows feature the innovative Q-Lon weather seals. Offering exceptional performance over a wide temperature range, they don't shrink or stretch. Instead they retain their original shape year after year to maintain an excellent weather seal.

The unique construction actively absorbs sound pollution, increasing acoustic insulation. Immune to rot, mould, mildew, UV and ozone, CFC-free Q-Lon weather seals will last the lifetime of a DuraGreen window.

3) Multi-chamber construction and insulated beading

DuraGreen's multi chamber construction is designed to improve strength, thermal and acoustic performance.

4) Bevelled or featured sash, frame and beads

The double clipped hollow glazing bead is designed to aid thermal performance.

Other features

Stainless steel friction hinges -

High performance, superior quality.

High security shootbolt system -

Peace of mind with ease of operation.

The glass

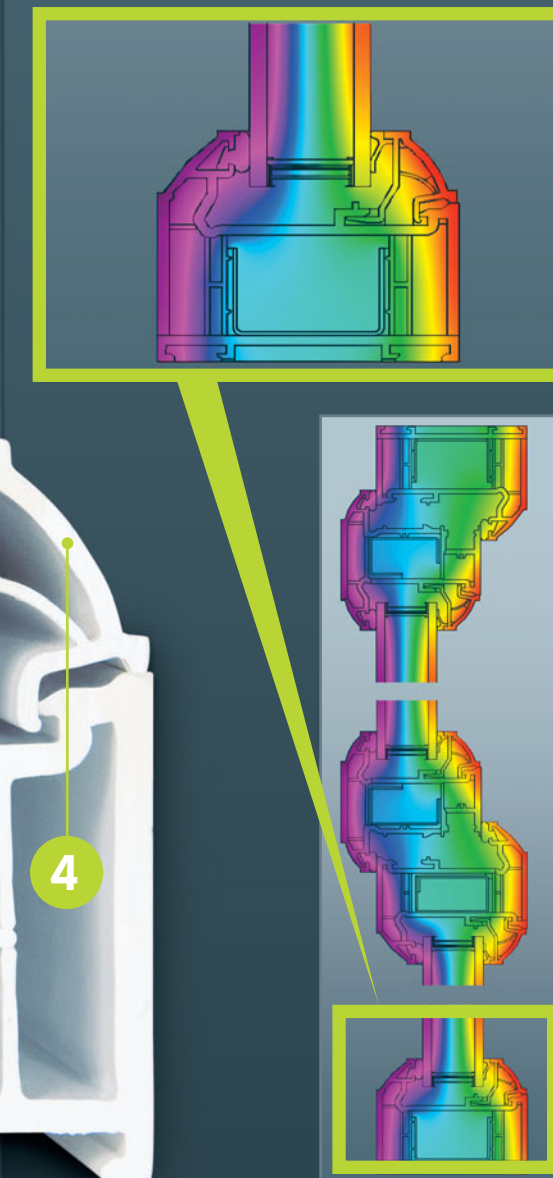
5) Pilkington glass

Pilkington's range offers proven products and technologies to meet a range of Window Energy Rating and Building Regulation requirements. Providing the Leading Low E glass in the UK, Pilkington also offers a good balance of U and G values, helping your customers to retain costly energy and exploit radiant heat from the sun. Our Energy efficient windows can be specified to meet the requirements of the Pilkington Energikare scheme - further assurance of the credentials of our superior window system.



Thermal break

The diagram shows cold areas (purple and blue) at the outside of the window and warm (red and yellow) on the inside of the window. As heat isn't transmitted across the profile, spacer or glass, DuraGreen maintains a warm and comfortable living environment.



Choose the best energy rated windows money can buy. **For more information about 'DuraGreen, visit www.duragreen.co.uk**