



Keeping you cooler in summer and warmer in winter

CELSIUS™
PERFORMANCE GLASS

The Celsius Range from K2 Glass; the Specialist Conservatory Glass Manufacturer

At the heart of the Celsius range lies tried and tested technology, specially developed by one of the largest glass manufacturers in the world, with over 35 years experience in glass production.

More consumers are becoming increasingly aware of the benefits of glass roofing compared with polycarbonate. Aside from aesthetics, Glass tends to have a much longer life span compared to other roofing products and coupled with the ease of maintenance, it is now a preferred option by many discerning consumers.

The Celsius range was one of the first glazing options on the market to offer the unique combination of heat reflection AND thermal insulation, but Celsius has even more benefits.

Rainfall and traffic noise are reduced by over 100% when compared to 25mm polycarbonate. The argon gas filled units reduce the noise even further as well as offering greater insulation properties.

Destructive UV rays are reduced by up to 88%, thus offering protection for furniture and fabrics from sun damage.

Celsius Clear with its neutral appearance for side frames and certain roof installations offers the complete performance solution.



The Celsius Range - Making the conservatory an all year round living space.



Technical Data

The table to the right gives you a clearer idea of the impressive performance of Celsius, Celsius Clear and Celsius Plus when compared to standard glass or polycarbonate.

Visible Light Transmittance

This is the percentage of visible light directly transmitted through the glass.

Solar Factor

This is the percentage of total solar energy (or heat from the sun) able to pass through the glass.

U-Value

This is used to measure internal heat loss during cooler periods. The lower the number, the greater the insulation.

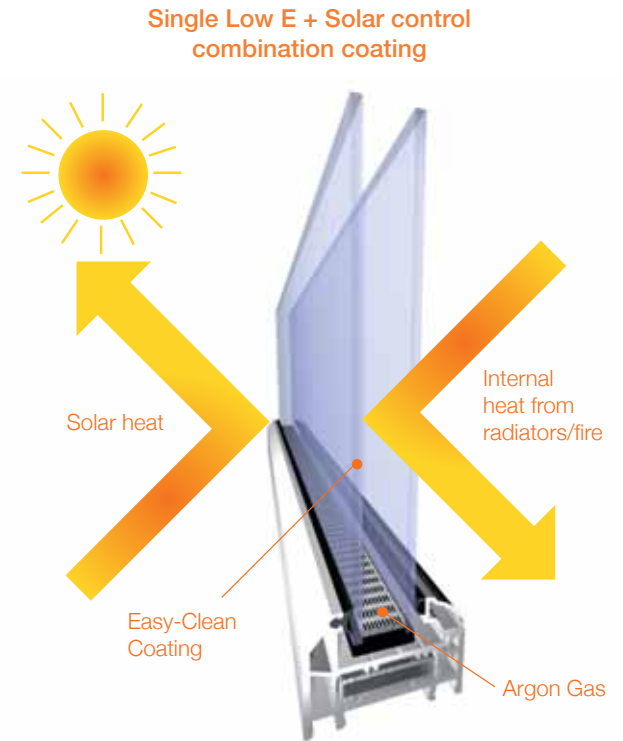
UV Transmission

Sun damaging UV rays are dramatically reduced, allowing greater protection of your furniture and fabrics.

Glass Specifications					
Technical Specification	Celsius	Celsius Clear	Celsius Plus	Standard Glass	Poly - Carbonate
Heat Reflection	72%	58%	74%	25%	45%
Solar Factor	28%	42%	26%	75%	55%
U-Value	1.4	1.4/1.2	1.2	2.8	1.75
Visible Light Transmission	45%	61%	40%	80%	68%
UV Protection	85%	73%	88%	25%	-
Toughened to BS EN 1279	✓	✓	✓	✓	X
20 year warranty against seal failure	✓	✓	✓	X	X
Easy Clean coating	✓	(Optional)	✓	X	X
Cavity fill	Argon	Air/Argon	Argon	Air	X
Blue Tint	✓	X	✓	X	X

The figures shown above are for guide purposes only. Slight variations may occur due to glass specification, time of year, manufacturing tolerance, point of manufacture and type of instrumentation used.

How Does Performance Glass Work?





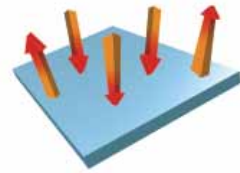
Celsius Glass



“The difference Celsius Glass has made is stunning.”

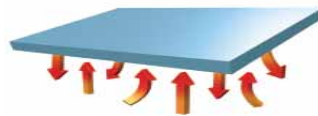
With its blue tint and performance abilities, Celsius is the original high performance glazing.

CELSIUS™
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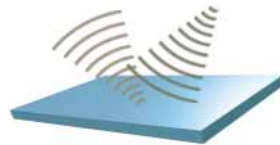
Heat Reflection
72%

Our unique coating reflects around 72% of total solar energy. This is nearly three times that of standard glass.



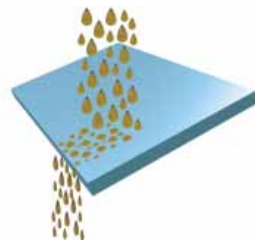
Thermal Insulation
50%

In an age when energy efficiency is paramount our product outperforms standard glass units by 50%, thereby helping to reduce potentially expensive heating bills.



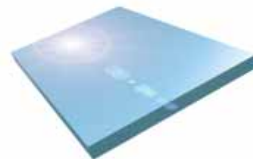
Sound Reduction
100%

Reduces noise by over 100% compared to 25mm polycarbonate.



Easy Clean

This feature enables water to run off the glass, taking most dirt and grime with it. The need for manual cleaning is dramatically reduced.



Glare Factor
44%

Reduces glare by 44% all year round compared to a standard double glazed unit.



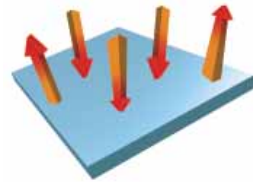
Celsius Clear



“Having Celsius Glass throughout my Victorian Conservatory has made it an all seasons room.”

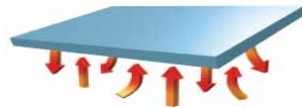
A neutral glass ideally suited for side frames and certain roof installations.

CELSIUS Clear™
PERFORMANCE GLASS



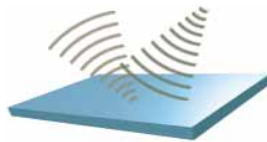
Heat Reflection
58%

Celsius Clear's main function is to reduce the heat in conservatories during summer months by its ability to reflect 58% of solar energy.



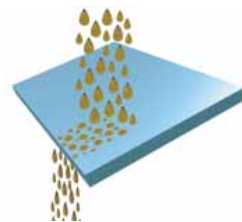
Thermal Insulation
50%

Achieving a U-Value of 1.2 Argon Filled or 1.4 Air Filled Units, Celsius Clear contributes to overall energy efficiency as it out performs standard glass by 50%. This helps to reduce potentially expensive heating bills.



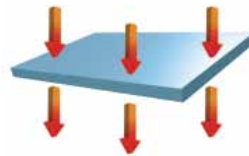
Sound Reduction
100%

Some customers have likened heavy rainfall in a conservatory with a polycarbonate roof to 'sitting in a drum' – whereas with Celsius Clear, in comparison to polycarbonate, the roof is over 100% quieter.



Easy Clean

With the Easy Clean coating the requirement of manual cleaning is significantly reduced, enabling water to run off the glass taking most dirt and grime with it. This is optional on Celsius Clear.



Visible Light Transmission
61%

Celsius Clear maximises natural light with a visible light transmission of 61%. This neutral appearance makes it an ideal product for the lower frames of the conservatory.

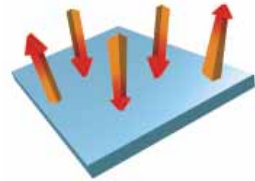


Celsius Plus



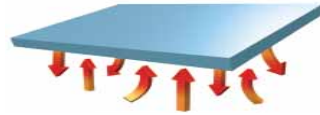
Celsius Plus – the ultimate performance glazing.

CELSIUS Plus™
PERFORMANCE GLASS



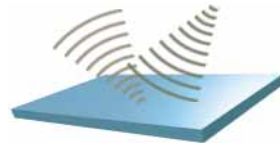
Heat Reflection
74%

Celsius Plus coating reflects approximately 3 times more solar energy than standard glass.



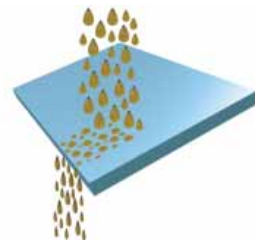
Thermal Insulation
Over 50%

By out performing standard glass units by over 50%, expensive heating bills are dramatically reduced.



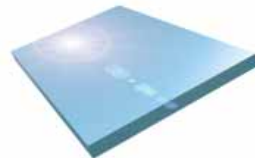
Sound Reduction
100%

Reduces noise by over 100% compared to 25mm polycarbonate.



Easy Clean

With the Easy Clean coating the requirement of manual cleaning is significantly reduced, enabling water to run off the glass taking most dirt and grime with it.



Glare Factor
49%

Glare reduction with Celsius Plus is 49% greater than standard double glazing.

“ I had polycarbonate previously - now, I just cannot think why! ”



Easy Clean

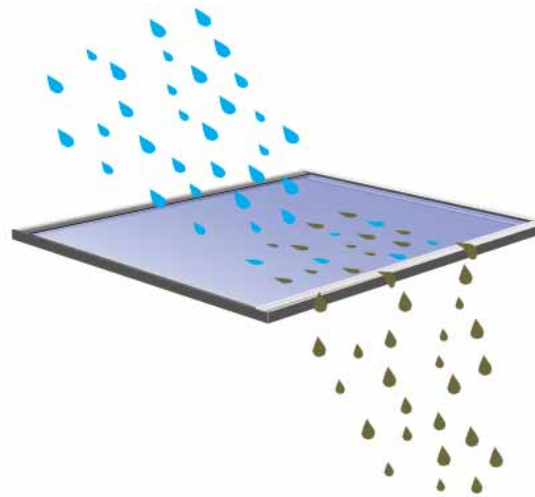
The Celsius Range comes as standard with an Easy Clean System.

What is the Easy Clean System?

A system for converting ordinary glass into 'Non-Stick', Easy to Clean Glass.

What does it mean for my conservatory?

- Stays cleaner longer because it keeps dirt and other contaminants from bonding to it.
- Is easier to maintain because it requires less cleaning.
- Does not support adhesion or growth of bacteria...for a more hygienic environment.
- Protects the surface from organic and inorganic contamination.
- Resists staining from hard water deposits whilst maintaining a pristine appearance.
- Eliminates the need for harsh or abrasive cleaning products.



“Easy Clean...saving time and effort, whilst maintaining your glass with a pristine appearance.”



Frequently Asked Questions

How much more solar energy is reflected by Celsius Glass compared to Standard Glass?

- Celsius Glass typically reflects 72% of total solar energy (heat from the sun) – more than three times the amount reflected by standard glass.

How much more heat is retained by Celsius Glass than Standard Glass?

- Celsius Glass typically retains 50% more heat than standard glass, keeping you warmer in winter and helping to reduce heating bills with the subsequent energy efficiencies.

How much quieter will my conservatory be with Celsius Glass?

- Celsius glass is argon filled and reduces noise levels by over 100% compared to 25mm polycarbonate.

Will the glare in my conservatory be reduced much with the Blue tint? How blue is the tint?

- Celsius Glass has a subtle blue tint and reduces glare by 44% whilst providing a good level of light for all year round conservatory usage.

Will my furniture still fade with Celsius?

- Destructive UV rays are cut by up to 88%, thereby offering furniture and fabrics added protection.

I have a North facing house – which in the range of performance glass would you suggest?

- Generally a North facing house and therefore conservatory, would benefit from extra light and a preferred option could be Celsius Clear – thus allowing maximum light infiltration, but still allowing the huge benefits that Celsius performance gives, such as it's heat retention properties.
- Conversely, a South facing house/conservatory which would receive maximum sun and light, would definitely benefit from Celsius or Celsius Plus – giving you that extra solar and anti-glare protection.
- As always, consumer preference is the deciding factor but with the three Celsius options you can have the complete performance glazing solution.

What does the Easy Clean coating mean to me?

- The Easy Clean coating on Celsius Glass reduces maintenance and helps to prevent unsightly marks from appearing on the conservatory roof. It is also guaranteed for 10 years.

Does Celsius Glass have any guarantee?

- The Celsius Range is kitemarked to BS EN 1279 standard and is backed by a 20-year warranty against seal failure. All other K2 Glass products carry a 10 year guarantee.

Why choose Celsius from K2 Glass?

- K2 Glass is a specialist manufacturer of conservatory glazing, you can be assured of the utmost quality in product and service.

N.B. K2 Glass Ltd. is committed to continuous product development and manufacture. The product details given in this document are correct at time of publication, however K2 Glass Ltd reserve the right to change specifications without notice. Customers should check with their supplier to ensure that they have the latest details. Copyright: K2 Glass Ltd

Backed by Superior Levels of Service

K2 Glass - The Ultimate Service

- From order to delivery it takes between 5 to 7 working days to produce any glass product.
- Products can be replaced when accidentally broken at an installation site within as little as 48 hours.
- Orders can be delivered direct to site to eliminate dual handling.
- K2 Glass cuts product to order, accurate to within 1mm.

Fast Facts:

- The Celsius Range carries the BS EN 1279 standard and is backed by a 20 year warranty against seal failure.
- Celsius has been accepted by Lancashire County Council for specification on all schools in the Lancashire region.
- K2 Glass Ltd have a Southern distribution hub, meaning that the company are now able to provide a direct delivery service to the consumer, or to the site of the installation, increasing efficiency, saving time and reducing the likelihood of breakages.
- The company is part of international building and construction group – The Burnden Group plc.



BS EN 1279
KM 51258

Beware of Imitations!

Over recent months there have been a number of instances where homeowners have been under the impression that they have bought this dynamic glazing for their conservatory, but in reality have been supplied with an inferior product.

As these products fail to match both the performance and aesthetic appeal of the genuine article, the customers affected have been left hot, bothered and understandably dissatisfied.

Having investigated some of these cases, K2 Glass is now advising homeowners that whilst many companies now claim to offer comparable glazing, few of these can surpass Celsius' industry leading performance or impressive credentials.

For maximum satisfaction, we advise homeowners to ask for our product by name. Other glazing may seem to offer similar qualities, but if it isn't Celsius, it won't perform like Celsius.

In short, it really is a case of beware of cheaper imitations. You can only buy Celsius products from K2 Glass.

Celsius Glass will be embossed with the Celsius stamp – you can be sure you have the genuine product with this symbol.





S/C: CTRB01 M/C: 3333/SEP 06

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