

CELSIUS™
PERFORMANCE GLASS

Keeping you **cooler** in summer and **warmer** in winter

CELSIUS™



PERFORMANCE GLASS

The Celsius Range from K2 Glass

The specialist conservatory glass manufacturer



Making the conservatory an all year round living space.

CELSIUS One™

PERFORMANCE GLASS

CELSIUS Elite™

PERFORMANCE GLASS

CELSIUS Clear™

PERFORMANCE GLASS

At the heart of the Celsius range lies tried and tested technology, specially developed by one of the world's largest glass manufacturers, 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 dramatically reduced 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.

Additionally Celsius Clear, with its neutral tinted appearance for side frames and certain roof installations, makes the Celsius range the complete performance glazing solution.



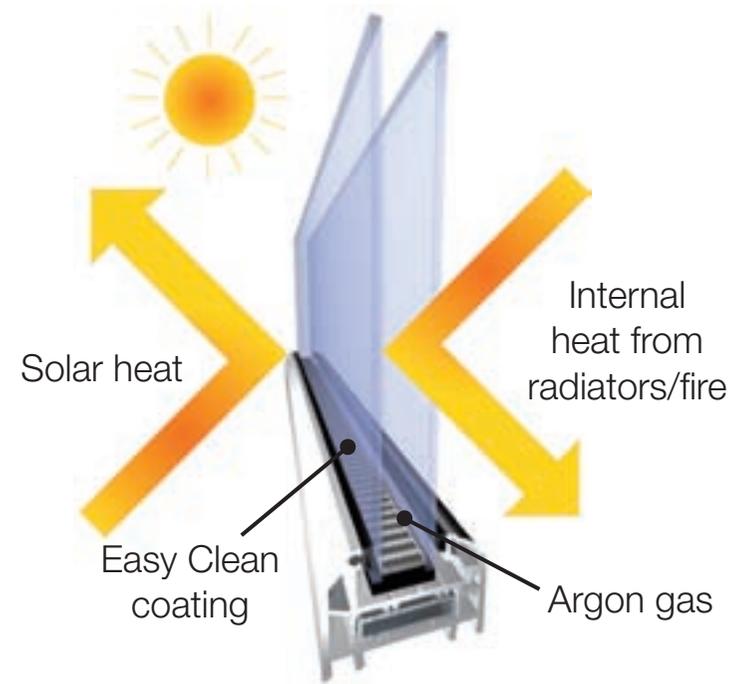
Whether large or small, simple or complex, sheltered or exposed, Celsius offers the **complete high performance glazing solution** for your conservatory

Technical Data

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

How does Performance Glass work?

Celsius Performance Glass utilises a Low-E and Solar control combination coating and Argon filled cavity to control the amount of visible light, UV and heat that pass through the glazed unit. Easy Clean technology is added to reduce maintenance requirements.



	U-Value	Solar Factor	Visible Light Transmission	Heat Reflection	UV Protection	Toughened to BS EN 12150-1	Manufactured to BS EN 1279-2	10 year warranty against seal failure	Easy Clean coating	Cavity Fill	Blue Tint
Standard Glass	2.8	75%	80%	25%	25%	✓	✓	✓	✗	Air	✗
Polycarbonate	1.75	55%	68%	45%	-	✗	✗	✗	✗	✗	✗
Celsius One	1.0	22%	38%	78%	94%	✓	✓	✓	✓	Argon	✓
Celsius Elite	0.9	22%	34%	78%	94%	✓	✓	✓	✓	Argon	✓
Celsius Clear	1.0	42%	61%	58%	73%	✓	✓	✓	✓	Argon	Neutral tint

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.

Visible Light Transmission

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 Protection

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



In the **commercial** environment, Celsius glass plays a vital part in creating the perfect **relaxed atmosphere**.



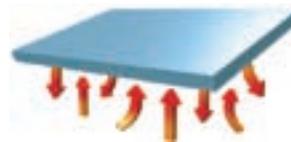
“ It’s amazing the difference using Celsius One made! ”

With its blue tint and enhanced abilities, Celsius One sets a new standard in performance glazing



Heat Reflection
78%

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



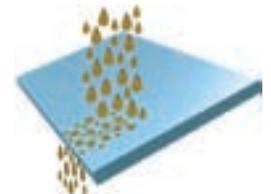
U-value
1.0

U-value measures internal heat loss, the lower the number, the greater the insulation.



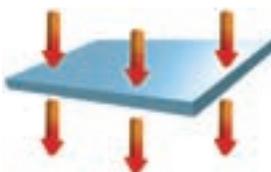
UV Protection
94%

Reduces the effect of harmful UV rays allowing greater protection of your furniture and fabrics.



Easy Clean

The Easy Clean coating reduces the requirement of manual cleaning, as it enables water to run off the glass taking most dirt and grime with it.



Visible Light Transmission
38%

Celsius One softens the impact of natural light through the roof of your conservatory, for increased comfort.



Whatever the weather, Celsius One offers you **protection** against the elements, for **all year round** comfort.



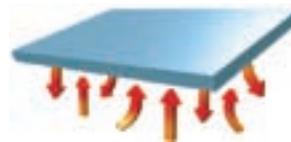
“ I had polycarbonate previously - now, I just cannot think why! ”

With its blue tint and improved abilities, Celsius Plus is the ultimate performance glazing



Heat Reflection
78%

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



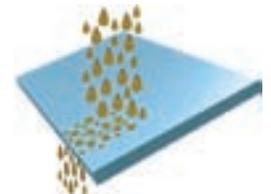
U-value
0.9

U-value measures internal heat loss, the lower the number, the greater the insulation.



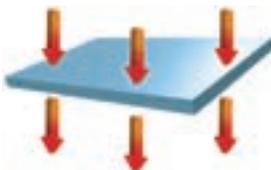
UV Protection
94%

Reduces the effect of harmful UV rays allowing greater protection of your furniture and fabrics.



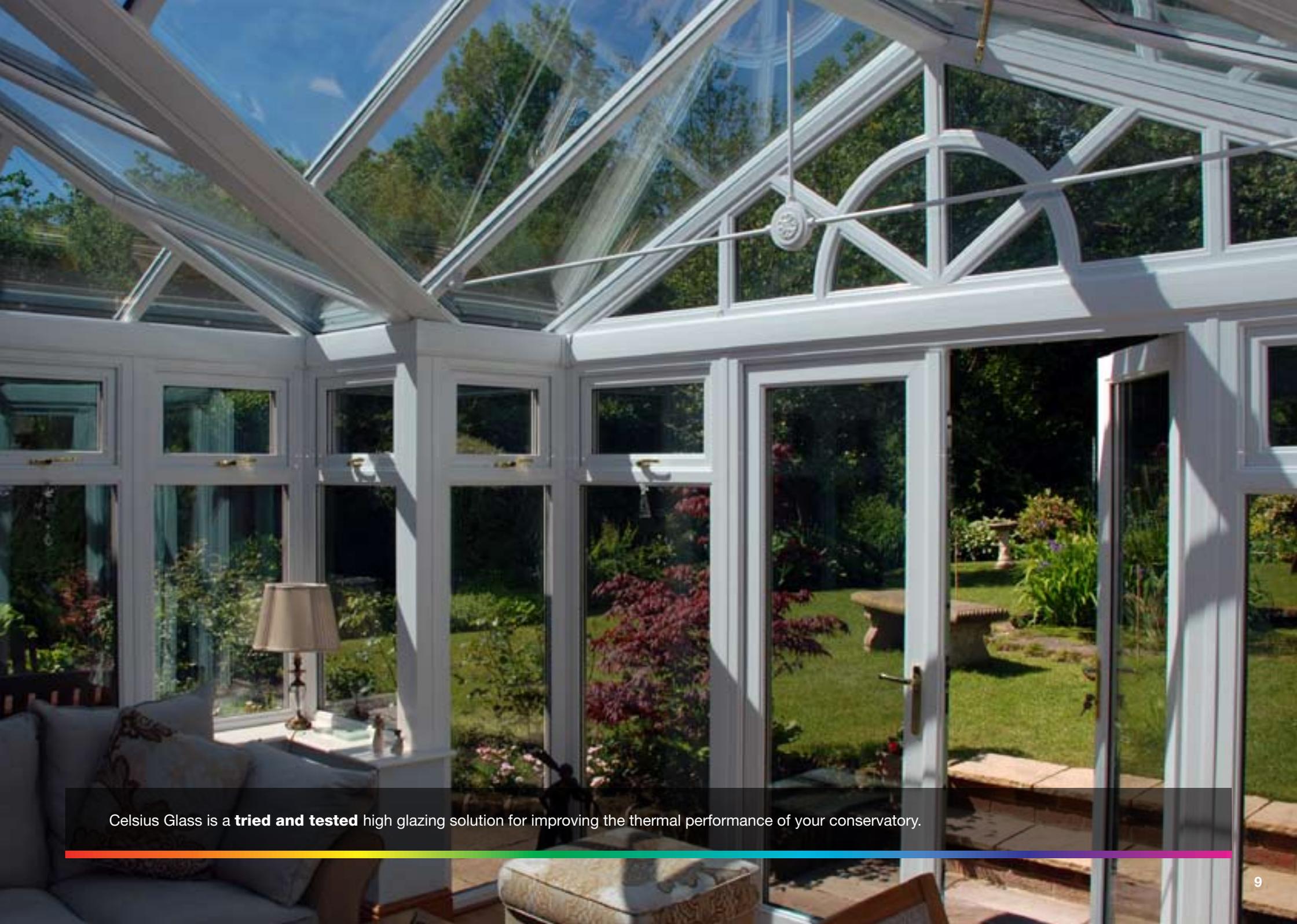
Easy Clean

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.



Visible Light Transmission
34%

Celsius Elite softens the impact of natural light through the roof of your conservatory, for increased comfort.



Celsius Glass is a **tried and tested** high glazing solution for improving the thermal performance of your conservatory.

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

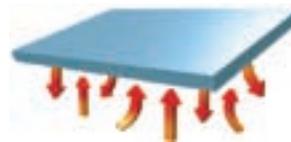


“ Having Celsius Glass throughout my Victorian Conservatory has made it an all seasons room. ”



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.



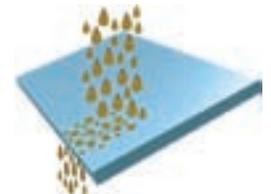
U-value
1.0

Achieving a U-Value of 1.0, Celsius Clear contributes to overall energy efficiency as it out performs standard glass by 50%. This helps to reduce potentially expensive heating bills.



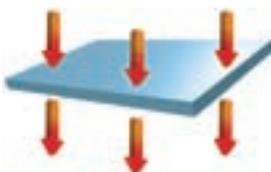
UV Protection
73%

Reduces the effect of harmful UV rays allowing greater protection of your furniture and fabrics.



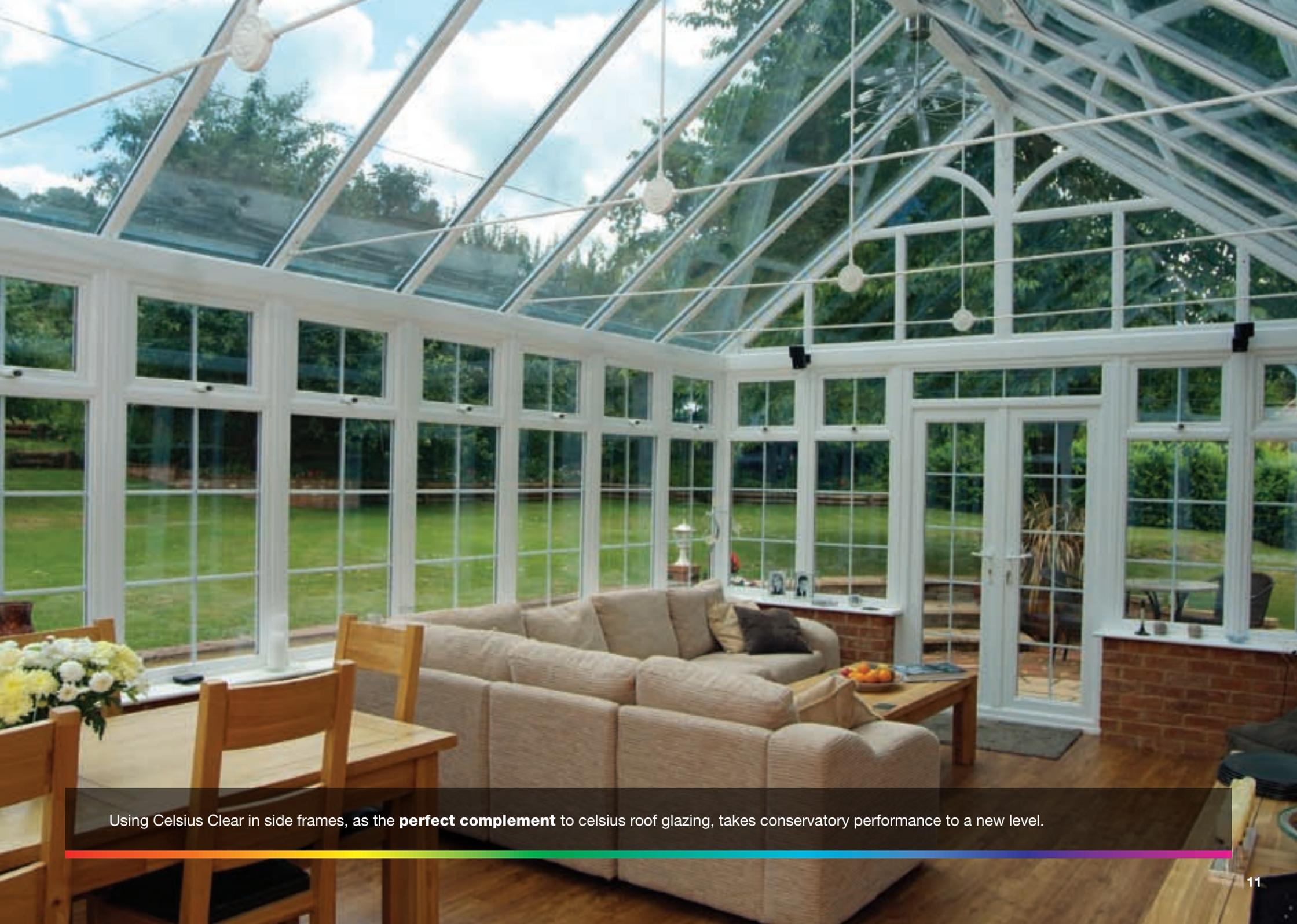
Easy Clean

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.



Visible Light Transmission
61%

Celsius Clear maximises natural light with a visible light transmission of 61%. This neutral tinted glass is an ideal product for the lower frames of the conservatory.



Using Celsius Clear in side frames, as the **perfect complement** to celsius roof glazing, takes conservatory performance to a new level.

Easy Clean



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

The Easy Clean System comes as standard across the entire Celsius range

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.



The picture above shows a single pane of glass, which has been treated on the left hand side only with our Easy Clean coating.

As you can see, Easy Clean beads water droplets, improving aesthetics and visibility on drizzly days.

The blue tint of Celsius One glass also emphasises the natural colours of the sky.



Our **Easy Clean** coating improves your enjoyment of your conservatory by **lowering maintenance** requirements to a minimum.

Fast Facts

From order to delivery it takes just 5-7 working days to produce any standard glass product from our range.

Accidental breakages at an installation site can be replaced within as little as 48 hours.

K2 Glass cuts product to order.

The Celsius Range carries the BS EN 1279-2 and BS EN 12150-1 standards.



BS EN 1279-2
KM 51258



BS EN 12150-1
KM 516235

Celsius has been accepted by Lancashire County Council for specification on all schools in the Lancashire region.

K2 Glass are able to provide a direct delivery service to the consumer, or to the site of the installation (eliminating dual handling), increasing efficiency, saving time and reducing the likelihood of breakages.

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 dramatically reduces noise levels when compared to 25mm polycarbonate.



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

How blue is the tint?

Celsius One and Celsius Elite glass has a subtle blue tint and reduces glare 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.

Does Celsius Glass have any guarantees?

The Celsius Range is manufactured to BS EN 1279-2 standard, toughened to BS EN 12150-1 and is backed by a 10-year warranty against seal failure. All other K2 Glass products also carry a 10 year guarantee.

“ ...with the three Celsius options you can have the complete performance glazing solution. ”



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 One or Celsius Elite - 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.

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.

How can I be sure I have Celsius Glass?

All Celsius Glass is embossed with a stamp identifying the product by name, shown here at actual size.

Celsius Plus, the premium product, will also feature a Low-E stamp on the inner pane.



Beware of Imitations

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

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

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.

You can be sure you have the genuine product by looking for the embossed Celsius stamp - as shown to the left.

CELSIUS One™
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CELSIUS Elite™
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CELSIUS Clear™
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BS EN 1279-2
KM 51258



BS EN 12150-1
KM 516235



GLASS