

CELSIUS One™  
PERFORMANCE GLASS

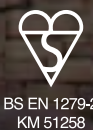
CELSIUS Elite™  
PERFORMANCE GLASS

CELSIUS Clear™  
PERFORMANCE GLASS

beyond  
performance

For more information on Celsius Glass,  
please visit [www.celsiusglass.co.uk](http://www.celsiusglass.co.uk)

Copyright © 2012 K2 Conservatories, a division of Synseal Extrusions Ltd. All rights reserved.  
No part of this document may be reproduced, amended or extracted.



S/C: CELSIUSB DEC12

CELSIUS™  
PERFORMANCE GLASS

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





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

# The Celsius Range

of specialist conservatory glass, from K2

CELSIUS One™  
PERFORMANCE GLASS

CELSIUS Elite™  
PERFORMANCE GLASS

CELSIUS Clear™  
PERFORMANCE GLASS

Making the conservatory an  
all year round living space.



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

More consumers are becoming aware of the benefits of glass roofing compared with polycarbonate. Aside from aesthetics, glass tends to have a much longer life span. Coupled with the ease of maintenance, it is now a preferred option for many discerning consumers.

The Celsius range was one of the first glazing solutions 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 offer greater insulation properties.

Destructive UV rays are reduced by up to 94%, thus offering protection for furniture and fabrics from sun damage.

With 'Easy Clean' technology included as standard, your glass will require much less maintenance.

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.

The figures shown in the table are for guidance purposes only. Slight variations may occur due to glass specificat ion, 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.

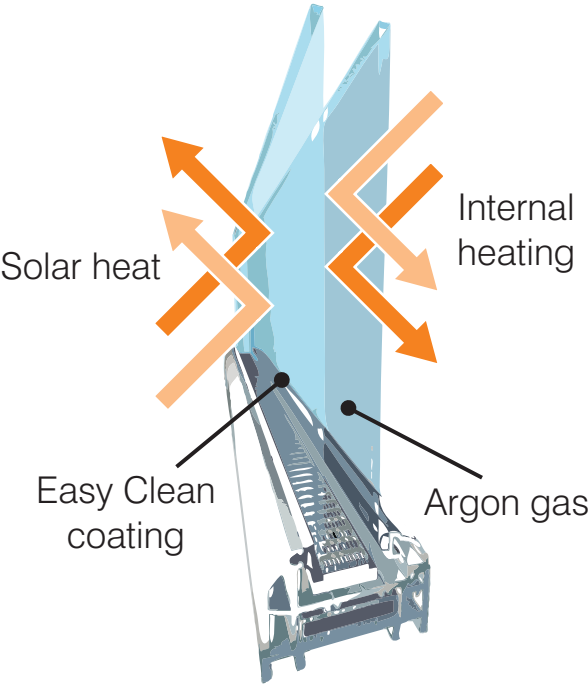
**U-Value:** A measure of internal heat loss during cooler periods. The lower the number, the greater the insulation.

**UV Protection:** Sun damaging UV rays are dramatically reduced, allowing greater protection of furniture & fabrics.

	Standard Glass	25mm Polycarbonate	Celsius One	Celsius Elite	Celsius Clear
U-Value	2.8	1.7	1.0	0.9	1.0
Solar Factor	75%	55%	22%	22%	42%
Visible Light Transmission	80%	68%	38%	34%	61%
Heat Reflection	25%	45%	78%	78%	58%
UV Protection	25%	45% (bronze)	94%	94%	73%
Toughened to BS EN 12150-1	✓	✗	✓	✓	✓
Manufactured to BS EN 1279-2	✓	✗	✓	✓	✓
10 year warranty against seal failure	✓	✗	✓	✓	✓
Easy Clean coating	✗	✗	✓	✓	✓
Cavity Fill	Air	✗	Argon	Argon	Argon
Blue Tint	✗	✗	✓	✓	Neutral tint

how does performance glass work?

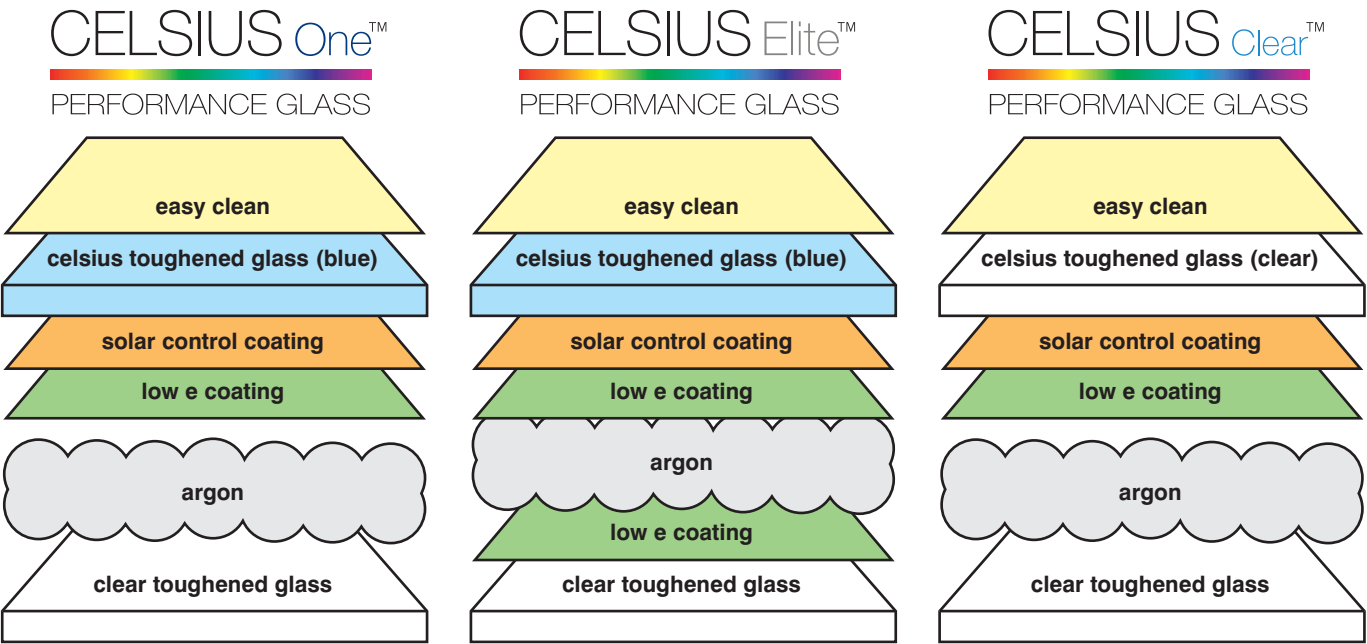
Celsius Performance Glass utilises a Low-E and Solar control combination coating, with an Argon filled cavity, to control the amount of visible light, UV and heat that pass through the glazed unit. Easy Clean technology is added to reduce maintenance requirements.



glass unit construction

Celsius Performance Glass sealed units are constructed using various layers/components, as illustrated below.

Please note that these are for illustration purposes only, and not exact thickness scales. Colours are not indicative of actual glass colouring.





CELSIUS™  
PERFORMANCE GLASS

feel the  
difference

Launched in 2003 the Celsius range of conservatory glass brought to the market a high performance product that brought new standards to the industry.

With the whole range offering a U-value of 1.0 or less, and UV protection as high as 94%, we are very proud to be leading the market.

The range, made up of Celsius One, Celsius Elite and Celsius Clear, will allow you to specify your conservatory glazing to fit most circumstances, and to suit both roof and frames.

Celsius is suitable for residential and commercial installations, such as the restaurant extension featured here.





# CELSIUS One™

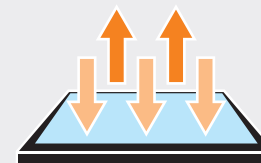
PERFORMANCE GLASS



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

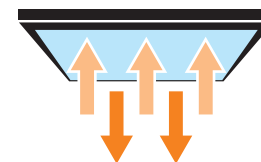


with its blue tint and enhanced abilities, Celsius One sets a new standard in performance glazing



Heat Reflection  
**78%**

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



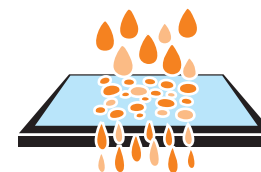
U-value  
**1.0**

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



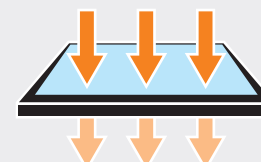
UV Protection  
**94%**

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.



# CELSIUS One™

PERFORMANCE GLASS

## a new standard

Celsius One has become the new benchmark in performance glass for conservatories.

With its blue tint and combined performance, it both enhances the look of your installation and ensures that you can use it for much longer and greater comfort than if you had opted for either a standard clear glass or other blue glass. Because it isn't all in the colour.

If you really want to make a difference in the way you use your conservatory opt for Celsius One.

The roof of this beautiful gable conservatory shows off the full effect of the blue tint.



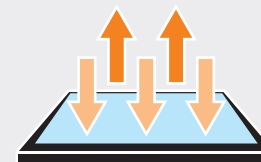




“ It had polycarbonate previously – now, I just cannot think why! ”

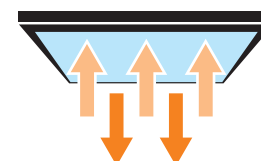


with its blue tint and improved abilities,  
Celsius Elite is the ultimate in performance glazing



Heat Reflection  
**78%**

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



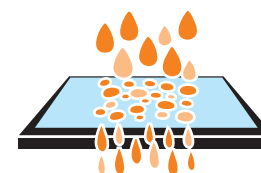
U-value  
**0.9**

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



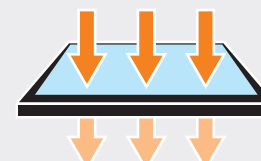
UV Protection  
**94%**

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



**Easy  
Clean**

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  
**34%**

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



# CELSIUS Elite™

PERFORMANCE GLASS

## simply the best

The ultimate in performance glass, Celsius Elite brings the best performance glazing you can get for your conservatory.

Visually it has the strongest blue in the range, which serves to enhance colours from your garden without darkening the room.

Externally the tint is more visible, giving a warm, cosy feel to your installation when looking in

Elite is the best option for conservatories that are south facing and in exposed locations, to ensure you can use the room in increased comfort.



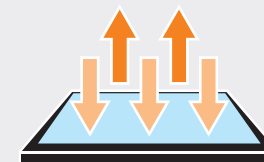




“ Having Celsius Glass throughout gave me an all seasons room! ”

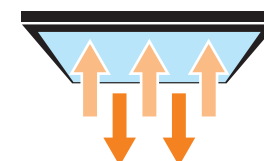


Celsius Clear is a neutral tinted glass ideally suited for side frames and certain roof installations



Heat Reflection  
**58%**

Celsius Clear is great for north facing conservatory roofs that need to allow in more warmth during winter, while still offering suitable heat reflection during the summer months.



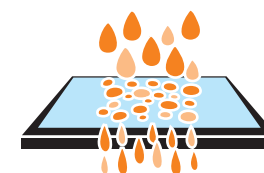
U-value  
**1.0**

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



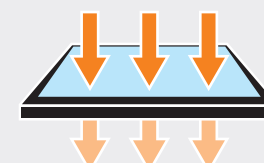
UV Protection  
**73%**

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  
**61%**

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



# CELSIUS Clear™

PERFORMANCE GLASS

## clearly simple

Recommended for the conservatory frames, Celsius Clear is the perfect alternative to standard clear glass.

With a neutral tint that will not stop the light coming through, it will however provide much better protection that standard glass and is highly recommended if you are going to use either ELITE or ONE in your roof to ensure your conservatory performs.

If your conservatory is North facing you might consider using Celsius Clear in your roof to allow a good level of light to come through in winter.







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

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 up to 70% less cleaning.
- Does not support adhesion or growth of bacteria, for a more hygienic environment.
- Protects the surface from organic and inorganic contamination.
- Eliminates the need for harsh or abrasive cleaning products.
- 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.

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

Easy Clean will make water bead on contact with the glass. This will be particularly noticable when just installed.

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





## fast facts

The Celsius Range carries the BS EN 1279-2 and BS EN 12150-1 standards and is backed by a 10-year warranty against seal failure.



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.

Easy Clean is standard across the whole Celsius Glass range.

Celsius is suitable for residential and commercial installations.

We can supply your conservatory installer within 5-7 working days from order.

## frequently asked questions

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

Celsius One & Elite typically reflect 78% of total 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 have subtle blue tints and reduce 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 94%, 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 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.

## beware of imitations - identifying Celsius Glass

There have been instances where homeowners believe 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 our performance and aesthetic appeal, the customers affected have been left 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 Celsius Stamps on the glass - as shown here.

Please note: while each Celsius product has a notably different tint, these images are for demonstration purposes only. Actual appearance/colour will vary according to a number of factors in your installation, including colours of surrounding scenery or walls, and angle of sunlight at time of viewing.



## buy with confidence

Ensure that you have received genuine high performance Celsius glass by registering your product online. Your installer will provide you with a Celsius Certificate of Authenticity that contains all the information needed to register your product on [www.celsiusglass.co.uk](http://www.celsiusglass.co.uk)

Your submitted details will be checked against our database to ensure you have been supplied genuine Celsius Glass - you will hear directly from us if we have any concerns.

