

CONSERVATORY

GLASS TO LOOK UP TO



BUILDING GLASS UK AND IRELAND



SAINT-GOBAIN

YOUR CHOICE

CONTENTS

- 4 | **Glass Performance**
- 5 | **BIOCLEAN** Self Cleaning Glass
- 6 | **SOLAR CONTROL** Glass
- 7 | **PLANITHERM 4S** Thermally Insulating Glass
- 8 | **Product Comparison**
- 10 | **BIOCLEAN AZURA+** Blue Tinted Roof Glass
- 12 | **BIOCLEAN AQUA+** Green Tinted Roof Glass
- 14 | **BIOCLEAN NATURA+** Clear Tinted Roof Glass
- 16 | **BIOCLEAN AZURA** Blue Tinted Roof Glass
- 18 | **BIOCLEAN SOLARA** Bronze Tinted Roof Glass

YOUR GLASS, YOUR COMFORT

Purchasing a conservatory or glazed extension is a major decision which, depending on the size, quality and design, can be a significant investment. Other key considerations are style, appearance and comfort, and it's here where the glass you choose can make all the difference.



Today, the potential uses of conservatories and extensions are as diverse as the designs available. Whether you're looking to add extra living space that can be used year-round, or aiming to create a seamless, visually connected link between home and garden, the right choice of glass is key.

Considerations such as solar control, heat retention and furniture fading will all contribute to the overall comfort of your conservatory. This is why the roof glass range from Saint-Gobain Building Glass offers five different options to suit a range of comfort requirements.

All products in the range come complete with low maintenance self-cleaning coating, BIOCLEAN, while all '+' products (Azura+, Aqua+ and Natura+) will also benefit from a high solar control performance.

To ensure you obtain the ultimate combination of comfort, specify PLANITHERM 4S with your roof glass option to ensure a cooler summer environment and warm, cosy winter months.

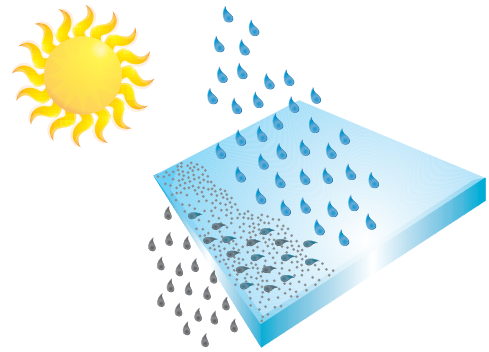
With the wrong choice of glass or polycarbonate roof, conservatories and glazed extensions can sometimes be noisy, difficult to clean and expensive to either heat or keep cool. But get it right, and a conservatory can provide valuable extra living space that perfectly complements your lifestyle and can be enjoyed all year-round.

GLASS PERFORMANCE



BIOCLEAN

LOW MAINTENANCE SELF-CLEANING COATING



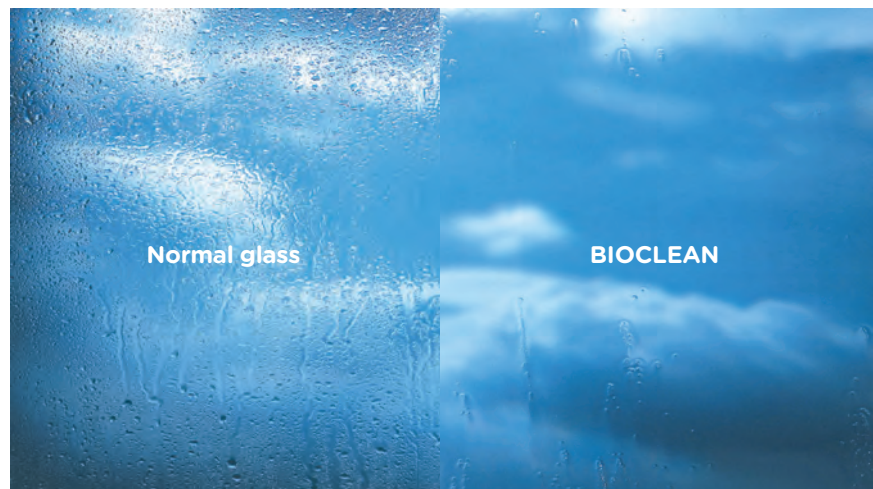
Spend less time cleaning and more time enjoying your surroundings.

How does it work?

BIOCLEAN is a revolutionary low maintenance self-cleaning coating that is applied to all our conservatory roof glass as part of the manufacturing process and will therefore last the lifetime of the pane.

There are two processes at work in our low maintenance self-cleaning glass. Firstly, the special coating harnesses natural daylight which triggers the breakdown of the dirt and grime on the outer surface of the glass.

Secondly, when rainwater hits the glass, rather than forming droplets it sheets across the surface of the glass helping to wash away the loosened dirt and grime. This sheeting effect also minimises spots and streaks by helping the glass to dry more quickly and evenly.

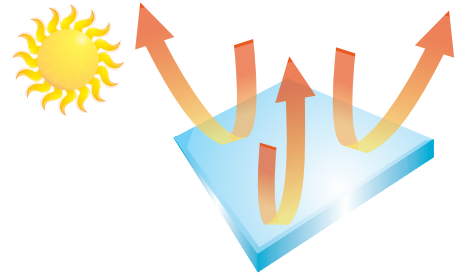


Advantages:

- A permanent low maintenance self-cleaning coating that lasts the lifetime of the window
- Perfect for your conservatory roof and other hard to reach areas that are difficult to clean
- Less dirt and grime adheres to the glass, meaning glass stays cleaner for longer
- Sheeting effect means you will always enjoy clear views outside, even when it's raining

SOLAR CONTROL GLASS

HIGH PERFORMANCE SOLAR CONTROL COATING



Helping you maximise the use of your conservatory by keeping the interior cool.

The glass used in our Azura+, Aqua+ and Natura+ conservatory roof glazing products has an additional versatile solar control function along with the BIOCLEAN low maintenance self-cleaning function, to help prevent the build-up of heat during hot summer months.

How does it work?

The solar control coating is able to reflect the heat from the sun back outside of the conservatory, significantly reducing the amount of heat that can pass into your conservatory and resulting in a more comfortable living space all year round.

Our solar control coated glass can then be combined with PLANITHERM 4S glass on the inner pane to create a conservatory roof with maximum thermal insulation for the winter months.

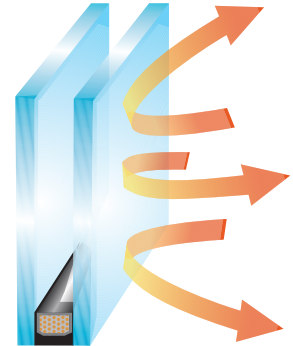


Advantages:

- Heat is reflected and therefore build up is significantly reduced during hot summer months
- Solar performance is enhanced when used alongside a tint
- Incorporated into our versatile Azura+, Aqua+ and Natura+ roof glass solutions
- Can be paired with PLANITHERM 4S on the inner pane to increase thermal insulation

PLANITHERM 4S

YEAR-ROUND THERMAL CONTROL



For side walls that keep you cooler in the summer and warmer in the winter

When purchasing a conservatory or other extension, many people choose performance glass for the roof, but do not consider it for the sidewalls. It is inevitable in winter that conservatories will be colder, but by choosing PLANITHERM 4S you can retain and optimise the heat within your room making the most of your conservatory whatever the weather.

How does it work?

When used alone in conservatory side walls, PLANITHERM 4S provides excellent levels of solar protection by reflecting unwanted heat. Meanwhile, the product's thermal insulating properties mean less energy is needed to heat your conservatory to the desired temperature, significantly reducing energy costs.

PLANITHERM 4S glass can also be combined with our solar control roof glass products to create high-performance roof glass with outstanding thermal efficiency.

With such high thermal insulation, drafts are almost eradicated meaning ventilation must be considered to ensure the air is kept fresh inside your home, giving a healthy living environment.



Advantages:

- Reduces heat loss from your home by 60%*
- Capable of reducing unwanted heat by 45%*
- Increased energy efficiency can mean energy cost reductions
- Attractive neutral appearance maximises natural light and gives clear views

*When compared to ordinary double glazing unit based on 4mm outer pane / 16mm argon filled cavity / 4mm inner pane with no coatings.

PRODUCT COMPARISON

Choosing the right glass is perhaps one of the most important decisions that you will need to make, but it needn't be a tough one. The comparison chart below is designed to help you choose the perfect combination of Saint-Gobain Building Glass products that will enable your new conservatory or extension to meet your requirements.

Terms:

BIOCLEAN Low-Maintenance Self-Cleaning Coating – a coating which harnesses both light and water to break down dirt and grime.

Solar Control – an additional function combined with BIOCLEAN low maintenance on “+” products, preventing heat build-up by reflecting heat from the sun back to the outside of the conservatory.

PLANITHERM 4S – glass with thermal insulating properties that mean less energy is needed to heat your conservatory to the desired temperature.

Heat Reflection – the amount of the sun's radiant heat which is absorbed or reflected by the glass.

Light Transmission – The amount of light from outside transmitted through the glass.

U-Value – The amount of heat escaping from the inside to the outside through the glass. The lower the u-value the less heat escapes.

Our conservatory roof glass range offers you five variations, all with low maintenance self-cleaning. All our ‘+’ products then have the additional feature of a solar control function, to promote greater heat reflection. In addition, glass which encompasses a tint also offers further solar control and glare reduction properties as well as an individual character to suit your own.

Finally, Saint-Gobain Building Glass provides PLANITHERM 4S conservatory wall glass, combining solar control and thermal insulating properties to ensure your conservatory provides a comfortable year-round environment.

Application	Product	Outer Pane			Inner Pane	Performance	
		Colour	BIOCLEAN Low maintenance Self-Cleaning Coating	Solar Control Function	PLANITHERM 4S Coating	Heat Reflection	Light Transmission
Roof Glass	Azura+	Blue	✓	✓	✓	83%	23%
Roof Glass	Aqua+	Green	✓	✓	✓	82%	27%
Roof Glass	Natura+	Clear	✓	✓	✓	70%	38%
Roof Glass	Azura	Blue	✓		✓	67%	47%
Roof Glass	Solara	Bronze	✓		✓	66%	43%
Side Walls	4S	Clear			✓	56%	66%

All products in our conservatory range offer a U-Value of 1.0. In comparison, a standard double glazed unit with no coating would have a U-Value of 2.6.

Benefits of glass over polycarbonate roof panels

- A glass roof dramatically improves the vision area from within, opening up more views, allowing in more natural light and instantly giving any conservatory a wow factor
- A dramatic reduction in the noise of falling rain with a glass roof
- Each of the four tint options has a character to suit your own
- Stays cleaner and mould free longer
- Better thermal insulation (when combined with PLANITHERM 4S) compared to 25mm polycarbonate with a glass roof

Maintenance and cleaning

Low maintenance self-cleaning glass provides you with clearer views for much longer and requires less cleaning. However it is not 100% maintenance-free. For those stubborn stains such as bird excrement and tree sap, Saint-Gobain has a recommended list of cleaning and maintenance products designed specifically for use with BIOCLEAN conservatory roof glass.

For details visit www.conservatory-glass.com



Azura⁺

BIOCLEAN + Solar Control + Tint



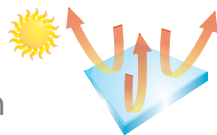
BLUE TINTED ROOF GLASS WITH HIGH-PERFORMANCE SOLAR CONTROL COATING AND LOW-MAINTENANCE SELF-CLEANING BIOCLEAN COATING.



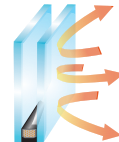
- Attractive blue colour complements both your interior and the natural aesthetic of the sky
- Reflects and absorbs up to 83% of the sun's heat, reducing the need for costly air conditioning and blinds that will obscure your view
- Blue tint and solar control coating absorb and reflect the sun's heat and light, reducing heat build up and uncomfortable glare
- Reduces the bleaching effect of the sun by blocking 92% of the sun's UV rays, prolonging the life of your conservatory furniture and soft furnishings
- BIOCLEAN coating means glass stays cleaner for longer and is easier to maintain
- Ongoing cost savings – lower air conditioning and cleaning bills
- Reduces noise impact of rain compared to polycarbonate roof panels

Benefits

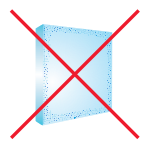
83%
Heat reflection



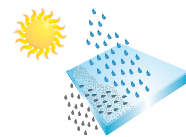
1.0W/m²K
U-value



Reduced
condensation



Low maintenance
self-cleaning.



Azura* on the outer pane is combined with PLANITHERM 4S on the inner pane.

Images for illustration purposes only. Please ask your installer for a sample.

Aqua⁺

BIOCLEAN + Solar Control + Tint



AQUA TINTED ROOF GLASS WITH HIGH-PERFORMANCE SOLAR CONTROL COATING AND LOW-MAINTENANCE SELF-CLEANING BIOCLEAN COATING.

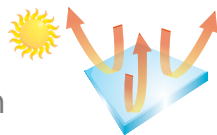


- Pleasant and relaxing aqua-green appearance to complement both your interior and the surrounding natural tones of your garden
- Reflects and absorbs up to 82% of the sun's heat, reducing the need for costly air conditioning and blinds that will obscure your view
- Aqua tint and solar control coating absorb and reflect the sun's heat and light, reducing heat build up and uncomfortable glare
- Reduces the bleaching effect of the sun by blocking 93% of the sun's UV rays, prolonging the life of your conservatory furniture and soft furnishings
- BIOCLEAN coating means glass stays cleaner longer and is easier to maintain
- Ongoing cost savings – lower air conditioning and cleaning bills
- Reduced noise impact of rain compared to polycarbonate roof panels

Benefits

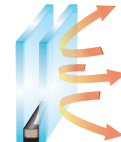
82%

Heat reflection



1.0W/m²K

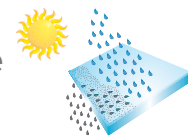
U-value



Reduced
condensation



Low maintenance
self-cleaning.



Aqua+ on the outer pane is combined with PLANITHERM 4S on the inner pane.

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Natura⁺

BIOCLEAN + Solar Control



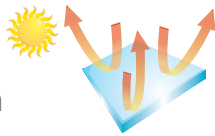
A VIRTUALLY NEUTRAL ROOF GLASS WITH HIGH PERFORMANCE SOLAR CONTROL COATING AND LOW-MAINTENANCE SELF-CLEANING BIOCLEAN COATING.



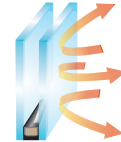
- Neutral appearance maximises light and enables you to balance your conservatory glass with your home's existing glazing
- Reflects and absorbs up to 70% of the sun's heat, reducing the need for costly air conditioning and blinds that will obscure your view
- Solar control coating reflects the sun's heat and light, reducing heat build up and uncomfortable glare
- Reduces the bleaching effect of the sun by blocking 80% of the sun's UV rays, prolonging the life of your conservatory furniture and soft furnishings
- BIOCLEAN coating means glass stays cleaner longer and is easier to maintain
- Ongoing cost savings – lower air conditioning and cleaning bills
- Reduced noise impact of rain compared to polycarbonate roof panels

Benefits

70%
Heat reflection



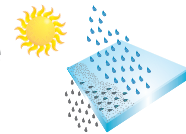
1.0W/m²K
U-value



Reduced
condensation



Low maintenance
self-cleaning.



Natura⁺ on the outer pane is combined with PLANITHERM 4S on the inner pane.

Images for illustration purposes only. Please ask your installer for a sample.

Azura

BIOCLEAN + Tint



BLUE TINTED ROOF GLASS WITH LOW MAINTENANCE SELF-CLEANING BIOCLEAR COATING.

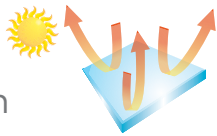
- Attractive blue colour complements both your interior and the natural aesthetic of the sky
- Highest light transmittance of the range allows light in while absorbing up to 67% of the sun's heat, reducing the need for costly air conditioning
- Blue tint absorbs heat, reducing heat build up and uncomfortable glare
- Reduces the bleaching effect of the sun by blocking 87% of the sun's UV rays, prolonging the life of your conservatory furniture and soft furnishings
- BIOCLEAR coating means glass stays cleaner longer and is easier to maintain
- Ongoing cost savings – lower air conditioning and cleaning bills
- Reduced noise impact of rain compared to polycarbonate roof panels



Benefits

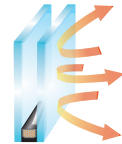
67%

Heat reflection



1.0W/m²K

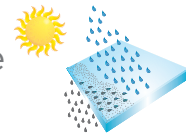
U-value



Reduced
condensation



Low maintenance
self-cleaning.



Azura on the outer pane is combined with PLANITHERM 4S on the inner pane.

Images for illustration purposes only. Please ask your installer for a sample.

Solara

BIOCLEAN + Tint



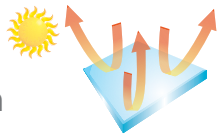
BRONZE TINTED ROOF GLASS WITH LOW MAINTENANCE SELF-CLEANING BIOCLEAR COATING.

- The bronze tint perfectly complements timber and dark-framed conservatories
- Reflects up to 66% of the sun's heat, reducing the need for costly air conditioning and blinds that will obscure your view
- Bronze tint absorbs natural daylight and reduces uncomfortable glare
- Reduces the bleaching effect of the sun by blocking 88% of the sun's UV rays, prolonging the life of your conservatory furniture and soft furnishings
- BIOCLEAR coating means glass stays cleaner longer and is easier to maintain
- Ongoing cost savings - lower air conditioning and cleaning bills
- Reduced noise impact of rain compared to polycarbonate roof panels

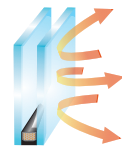


Benefits

66%
Heat reflection



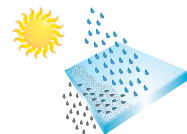
1.0W/m²K
U-value



Reduced
condensation



Low maintenance
self-cleaning.



Solara on the outer pane is combined with PLANITHERM 4S on the inner pane.

Images for illustration purposes only. Please ask your installer for a sample.



Building Glass UK and Ireland

Saint-Gobain Glass UK Ltd
Weeland Road, Eggborough
East Riding of Yorkshire, DN14 0FD, UK
www.saint-gobain-glass.com/uk

SAINT-GOBAIN BUILDING GLASS

Saint-Gobain Building Glass, Europe's leading manufacturer of flat glass for the UK, has the vision to be the reference for innovation and service, achieved by putting the customer at the heart of everything it does to offer unrivalled products and services.

Whether for an extra living space that can be used year-round, or a seamless, visually connected link between home and garden, the right choice of glass is key. Considerations such as furniture fading, solar control and heat retention will all contribute to the overall comfort of your conservatory or extension.

By helping you understand the types of glass that are available, Saint-Gobain Building Glass can help you design the perfect usable space that remains cooler in the summer months yet warm and cosy in the winter months. And because aesthetics are equally important, Saint-Gobain Building Glass also offers a selection of tints to suit any home.

With clear glass for a neutral appearance, bronze glass to complement timber frames or blue glass to brighten up those grey cloudy days, the Saint-Gobain Conservatory Range can allow your conservatory or glass extension to provide valuable extra living space that perfectly complements your lifestyle and can be enjoyed all year-round.