SAINT-GOBAIN

conservatory glass *to look up to*

SAINT-GOBAIN GLASS SIMPLICITY

Your choice

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Your conservatory, your choice

Purchasing a conservatory is a major decision, which depending upon the size, quality and design can be a significant investment. Other key considerations are, of course, style, appearance and comfort though it's here where the glass you choose makes all the difference. You want your conservatory to look good and to suit your needs.

Nowadays the potential uses of a conservatory are as diverse as the designs available. Some are looking to add extra living space that can be used year round as a dining room, children's playroom, home office or similar, while others are looking to create a seamless, visually connected link between home and garden.

Conservatories can offer a bright and airy place to relax and enjoy uninterrupted views of outside whilst maintaining a comfortable inside ambience.

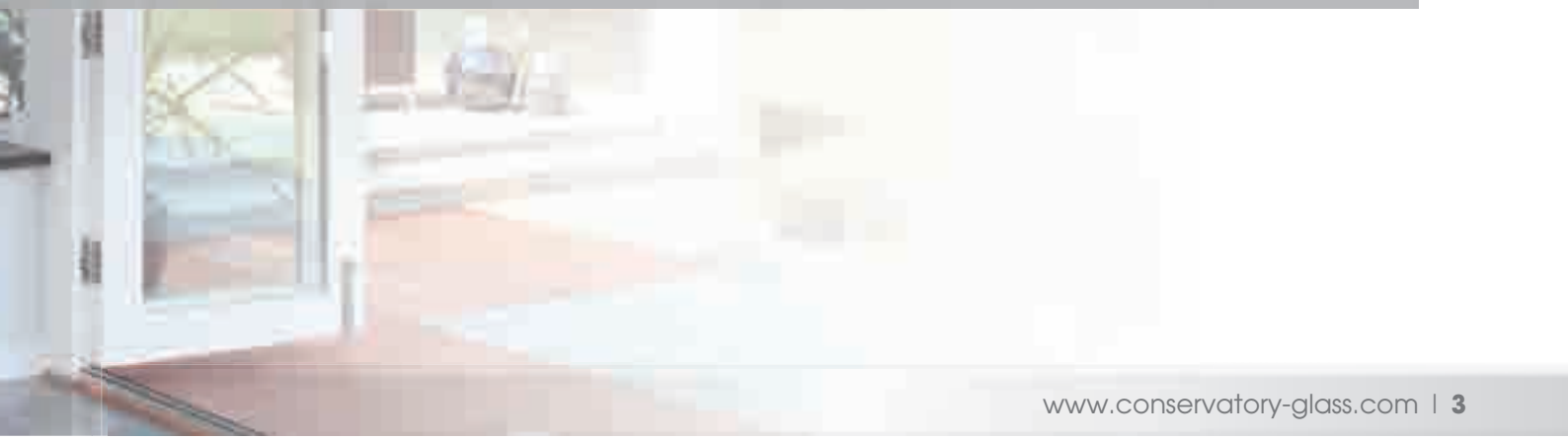
When choosing a conservatory you need to ensure that it will match your own specific lifestyle requirements and it is here that the right choice of glass is key.

By considering a combination of SAINT-GOBAIN GLASS products and tint finishes you can create the conservatory that is perfect for you.

Our conservatory roof glass range offers you a choice of four attractive tints all with low maintenance self-cleaning. Each glass tint offers its own combination of solar control and glare reduction properties as well as an individual character to suit your own.

Specify PLANITHERM 4S conservatory wall glass with any of our roof options to obtain the ultimate combination of a cooler summer environment and warm, cosy winter months.

With SAINT-GOBAIN GLASS your conservatory will be comfortable, will cost less to heat or cool, and will stay cleaner for longer.



It's the glass
that makes the difference

Why choice is important

Made almost entirely out of glass, conservatories let the light flood in and welcome the outdoors into your home, creating a seamless connection between inside and out.

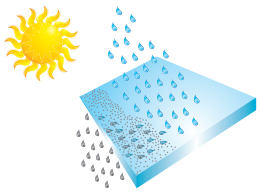
Surprisingly though, when considering a new conservatory, many people focus on the aesthetics – the frame, the shape and how it will complement the existing architecture of their home, but give significantly less thought to the choice of glass.

When it comes to the future usefulness of your conservatory and the amount of upkeep that it is likely to require, it really is the glass that makes the difference, and choosing a conservatory that compliments your home, can also increase its value.

With the wrong choice of glass or polycarbonate roof, conservatories are not only difficult to clean, but they are also noisy, expensive to heat in the winter months and to keep cool in the summer. But get it right and you can have a fantastic, light filled extension to your home providing valuable extra living space that perfectly complements your lifestyle and can be enjoyed all year round, whatever the weather.

Your choice of glass for the roof and vertical glazing will have a major impact on the overall feel and comfort of your conservatory, and choosing the right glass is perhaps one of the most important decisions that you will need to make. With the SAINT-GOBAIN GLASS range of high specification conservatory glazing solutions offering a host of benefits, making the right choice is now a whole lot easier.

"With a growing family, space was beginning to get a bit tight, so the addition of a conservatory seemed a good solution – especially as the right choice of glass means we get the best use of it all year round, whatever the weather. Fantastic!"



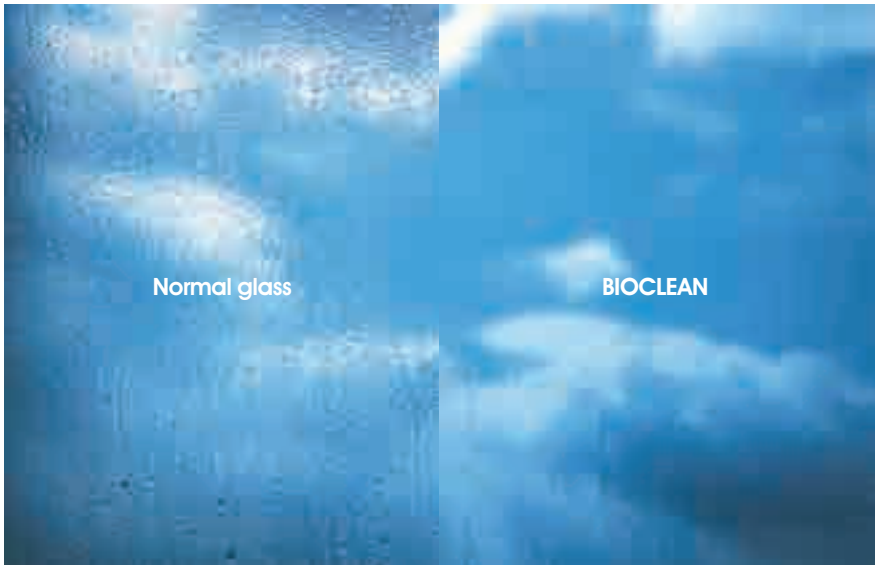
Self-cleaning glass

BIOCLEAN Low Maintenance Self-Cleaning Coating

Spend more time relaxing and enjoying the view, rather than cleaning the windows!

A revolutionary self-cleaning coating is applied to our glass as part of the manufacturing process, which means that it is fused to the surface of the glass and therefore lasts the lifetime of the pane.

The BIOCLEAN coating uses both rain and natural light from the sun to efficiently combat the dirt and grime that accumulates on the outside of the window. By significantly reducing the need for manual cleaning it provides the ideal solution for keeping those hard or dangerous to reach areas clean, leaving you with more time to relax and enjoy your conservatory.



How does it do that?

There are two processes at work in our 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 flattens and spreads out 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 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
- Glass stays cleaner for longer
- Less dirt and grime adheres to the glass so any cleaning is quick and easy
- Ongoing cost savings with reduced window cleaning bills
- Kinder to the environment with a less frequent use of water and detergents
- Clear view outside even when it's raining thanks to the sheeting effect
- Available in a choice of four tint options: Natura, Solara, Azura and Aqua to match your precise specification requirements

Solar control glass

High Performance Solar Control Coating

Helping to keep your interiors cooler – maximising the use of your conservatory.

The glass used in our conservatory roof glazing has a versatile solar control coating. It helps to prevent the build up of heat during hot summer months.

The solar control coating reflects the heat from the sun back to the outside of the conservatory keeping the interior cooler in the summer months, and significantly reduces the amount of heat that is able to pass into your conservatory providing you with a more comfortable and useable living space.

The coating is incorporated into our Natura and Aqua roof glass solutions for maximum solar control and is combined with PLANITHERM 4S glass for maximum thermal insulation. The coloured tints on our roof glass also provide solar control as they absorb more heat and radiate it back to the outside. Combining a tint with a coating to reflect even more heat will increase the overall cooling performance even further.

The result? You can have the best of both worlds - solar control coating to keep cooler in warmer summer months, and the thermal retention properties of PLANITHERM 4S in the winter.

Advantages:

★	Tint – uses its inherent colour to absorb heat
★★	Coating – reflects heat back to the outside
★★★	Tint and Coating – absorbs and reflects heat for maximum comfort

Thermal insulation

Thermal insulation

PLANITHERM 4S Year Round Thermal Control

A new concept for year-round comfort, keeping you warmer in winter and cooler in summer.

Traditionally, conservatories have a reputation of being too hot in the summer and being drafty and chilly in the winter months, but with PLANITHERM 4S Conservatory Wall Glass this can truly be a thing of the past.

With the right choice of glass your conservatory can be a natural extension to your home, providing usable, extra living space to be enjoyed all year long.

Having chosen your preferred roof glass option it is equally important to consider the glass walls. PLANITHERM 4S combines solar control and thermal insulating properties, to provide a comfortable year round environment, enabling you to get the most out of your conservatory whatever the weather.

PLANITHERM 4S can save you money on your energy bills too. The thermal insulating properties mean you will use less energy to heat your conservatory to the desired temperature. The energy cost reduction can be as much as 28%.

Keep cool in summer…

The PLANITHERM 4S glass is combined with our solar control roof glass products to create high performance conservatory roof glass with outstanding thermal efficiency.

However, when purchasing a conservatory, many people choose solar control glass for the roof, but do not consider it for the sidewalls. In south or west facing conservatories in particular, the amount of heat build up can make the conservatory uncomfortable, even when solar control glazing has been used overhead.

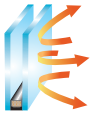
When used alone in conservatory side walls, PLANITHERM 4S:

- Provides excellent levels of solar protection for conservatory side walls, reducing unwanted heat by more than 56%
- Has an attractive neutral appearance giving you a clear view of your surroundings

Benefits

56%
Heat reflection

1.0W/m²K
U-value



Reduced internal condensation

Keep warm in winter…

PLANITHERM 4S conservatory wall glass:

- Provides unbeatable thermal insulation, reflecting heat back into the room and reducing heat loss more effectively than traditional low-emissivity glass products
- 62% less heat loss compared to ordinary double-glazing
- Has market leading thermal efficiency (a U-value of 1.0W/m²K), far exceeding all current available products
- Increases energy efficiency by retaining more heat in the room
- Reduces your heating bills
- Reduces the environmental impact of excess energy production
- Maximises the amount of natural daylight coming in to your home, especially important during the darker winter months
- Reduces cold spots and draughts
- Virtually eliminates internal condensation

Aqua

Aqua

BIOCLEAN + Solar Control

Aqua tinted roof glass with high performance solar control coating and low-maintenance self-cleaning.

- Pleasant and relaxing aqua-green appearance to complement both your interior and the surrounding natural tones of your garden
- Reflects and absorbs up to 79% of the sun's heat, reducing the need for costly air conditioning and blinds that will obscure your view
- Gives the best available solar control
- Aqua tint helps to absorb the sun's light and reduce uncomfortable glare by over 68%
- Reduces the bleaching effect of the sun by blocking 91% of the sun's UV rays, prolonging the life of your conservatory furniture and soft furnishings
- Glass stays cleaner for longer
- Easier and less frequent cleaning
- Ongoing cost savings – lower air conditioning and cleaning bills
- Reduced impact noise of precipitation compared to polycarbonate roof panels

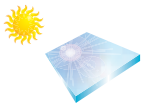
"My conservatory doubles as a home office so I chose Aqua roof glass and PLANITHERM 4S for the walls – maximising light, reducing glare and maintaining a more comfortable temperature, even whilst working inside on hot summer days!"

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

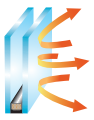
Benefits

79%
Heat reflection

68%
Reduced glare

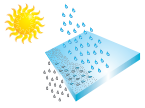


1.0W/m²K
U-value



Reduced condensation

Naturally self-cleaning



natura

Natura

BIOCLEAN + Solar Control

A virtually neutral roof glass with high performance solar control coating and low-maintenance self-cleaning.

- Very neutral appearance, enabling you to balance your conservatory glass with your home's existing glazing
- Maximises natural light, creating a fresh feel for your conservatory and the adjoining rooms
- Reflects 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 reduces uncomfortable glare by over 62%
- 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
- Glass stays cleaner for longer
- Easier and less frequent cleaning
- Ongoing cost savings – lower air conditioning and cleaning bills
- Reduced impact noise of precipitation compared to polycarbonate roof panels

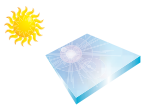
"Our choice of Natura roof glass for our conservatory really helps us to bring the outside in and links the house and garden perfectly!"

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

Benefits

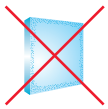
70%
Heat reflection

62%
Reduced glare

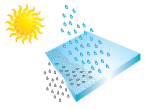


1.0W/m²K
U-value

Reduced condensation



Naturally self-cleaning



Azura

Azura

BIOCLEAN

Blue tinted roof glass for solar control and low maintenance self-cleaning.

- Allows light in to create an open, airy space
- Highest light transmittance of the range allows light in and absorbs up to 68% of the sun's heat, reducing the need for costly air conditioning and blinds that will obscure your view
- Attractive blue tint filters light and reduces glare by over 52%
- Reduces the bleaching effect of the sun by blocking 86% of the sun's UV rays, prolonging the life of your conservatory furniture and soft furnishings
- Glass stays cleaner for longer
- Easier and less frequent cleaning
- Ongoing cost savings – lower air conditioning and cleaning bills
- Reduced impact noise of precipitation compared to polycarbonate roof panels

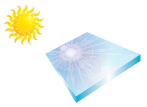
"We're so glad that we chose Azura blue roof glass for our conservatory. We can now relax and enjoy blue skies all year round without any tricky cleaning concerns to cloud our day!"

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

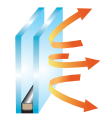
Benefits

68%
Heat reflection

52%
Reduced glare

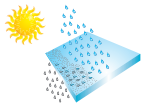


1.0W/m²K
U-value



Reduced condensation

Naturally self-cleaning



solara

Solara

BIOCLEAN

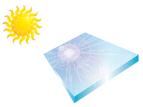
Bronze tinted roof glass for solar control and low maintenance self-cleaning.

- The Bronze tint perfectly complements timber and dark-framed conservatories, giving it that rustic feel
- 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 to reduce glare by over 57%
- 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
- Glass stays cleaner for longer
- Easier and less frequent cleaning
- Ongoing cost savings – lower air conditioning and cleaning bills
- Reduced impact noise of precipitation compared to polycarbonate roof panels

Benefits

66%
Heat reflection

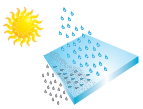
57%
Reduced glare



1.0W/m²K
U-value

Reduced condensation

Naturally self-cleaning



"As we wanted a darker framed conservatory to match the rest of the house, the bronze tinted Solara roof glass really complements the look and gives a rich, warm feel to the room."

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

Choice - comparison chart

Your choice of glass for the roof and vertical glazing will have a major impact on the overall feel and comfort of your conservatory. 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 following comparison chart is designed to help you choose the perfect combination of SAINT-GOBAIN GLASS products that will enable your new conservatory to exactly match your specific criteria.

Benefits of glass over polycarbonate roof panels

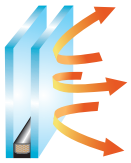
- A glass roof dramatically improves the vision area from within, opening up more views, allowing in more natural light and instantly giving any conservatory a wow factor
- A dramatic reduction in the noise of falling rain with a glass roof
- Each of the four tint options has a character to suit your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

Application	Sealed unit configuration		Heat reflection	Glare reduction	U-values	Reduced condensation	Naturally self-cleaning
	Outer pane	Inner pane					
Roofs	BIOCLEAN + SOLAR CONTROL AQUA	PLANITHERM 4S	79%	68%	1.0 (W/m^2K)	✔	✔
Roofs	BIOCLEAN + SOLAR CONTROL NATURA	PLANITHERM 4S	70%	62%	1.0 (W/m^2K)	✔	✔
Roofs	BIOCLEAN AZURA	PLANITHERM 4S	68%	52%	1.0 (W/m^2K)	✔	✔
Roofs	BIOCLEAN SOLARA	PLANITHERM 4S	66%	57%	1.0 (W/m^2K)	✔	✔
Sidewalls	PLANITHERM 4S	FLOAT GLASS	56%	34%	1.0 (W/m^2K)	✔	✘

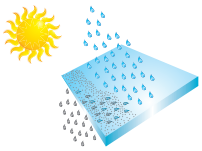
Maintenance and Cleaning

Self-cleaning glass provides you with clearer views for much longer and 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 contact Saint-Gobain Glass UK.

Terms

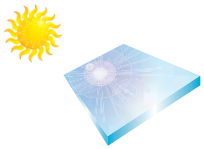


U-value - measures internal heat loss. The lower the number, the greater the insulation.



Self-cleaning glass - glass with a photocatalytic and hydrophilic coating which harnesses both light and water to break down organic dirt and adherence of mineral material.

Solar heat - sun's radiant heat in light which is transmitted through or reflected by glass.



Light Transmission - the proportion of the visible light spectrum which is transmitted through the glass.

Saint-Gobain Glass UK Ltd

Saint-Gobain Glass is one of the world's leading flat glass manufacturers.

Opened in April 2000, Saint-Gobain Glass' plant in Yorkshire is an award winning facility which has supplied the latest glass solutions to the UK and Irish markets for over 10 years.

Being voted "Britain's Best Factory 2005" and "Britain's Best Processing Plant 2008" highlights the pedigree and importance that Saint-Gobain Glass place on continued commitment to HSE, employees, customer service, quality, and continual product innovation.

As Saint-Gobain Glass UK moves into its second decade, the company continues to invest in their plant and their commitment to supply innovative products to the construction and renovation markets.

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