

What is Solar Control glass?



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Excess heat and glare caused by the sun can be a major source of discomfort in some indoor environments, especially those with glass roofs, conservatories or with large glazed areas. The latest double glazing window solutions for solar control reflect and filter the sun's rays, allowing natural daylight into the room, but without uncomfortable visual glare. Rooms can be kept cooler during sunny periods, reducing the need for air-conditioning.

A variety of solar control glass solutions are available, depending on the level of solar control needed. The glass is manufactured by tinting and/or applying a metallic coating. Online coating offers a greater range of performance and a more neutral appearance for solar protection glass.

Solar Heat Gain Coefficient or 'g' value

The Solar Heat Gain Coefficient (SHGC), which measures a window's ability to transmit solar energy into a room, is measured in value from 0 to 1. The SHGC is commonly referred to as the g-value, or solar factor. The

lower a window's g-value, the greater its ability to insulate against solar heat build up.

Combinations with other double glazing window solutions

Solar control glass can be incorporated into double glazing window with combinations of self-cleaning, Low E and decorative glass solutions. Combining solar control glass with Low E thermal insulation in one double glazing unit, offers optimum temperature comfort all year round.

A solar control glass is a glass with a special coating designed to reduce the amount of heat entering a building. It reflects and absorbs heat as well as filtering light for reduced glare. Using a solar control glass can reduce the need for air-conditioning and blinds. There are many types of solar control glass offering different aesthetic options; tinted, reflective and neutral.

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.

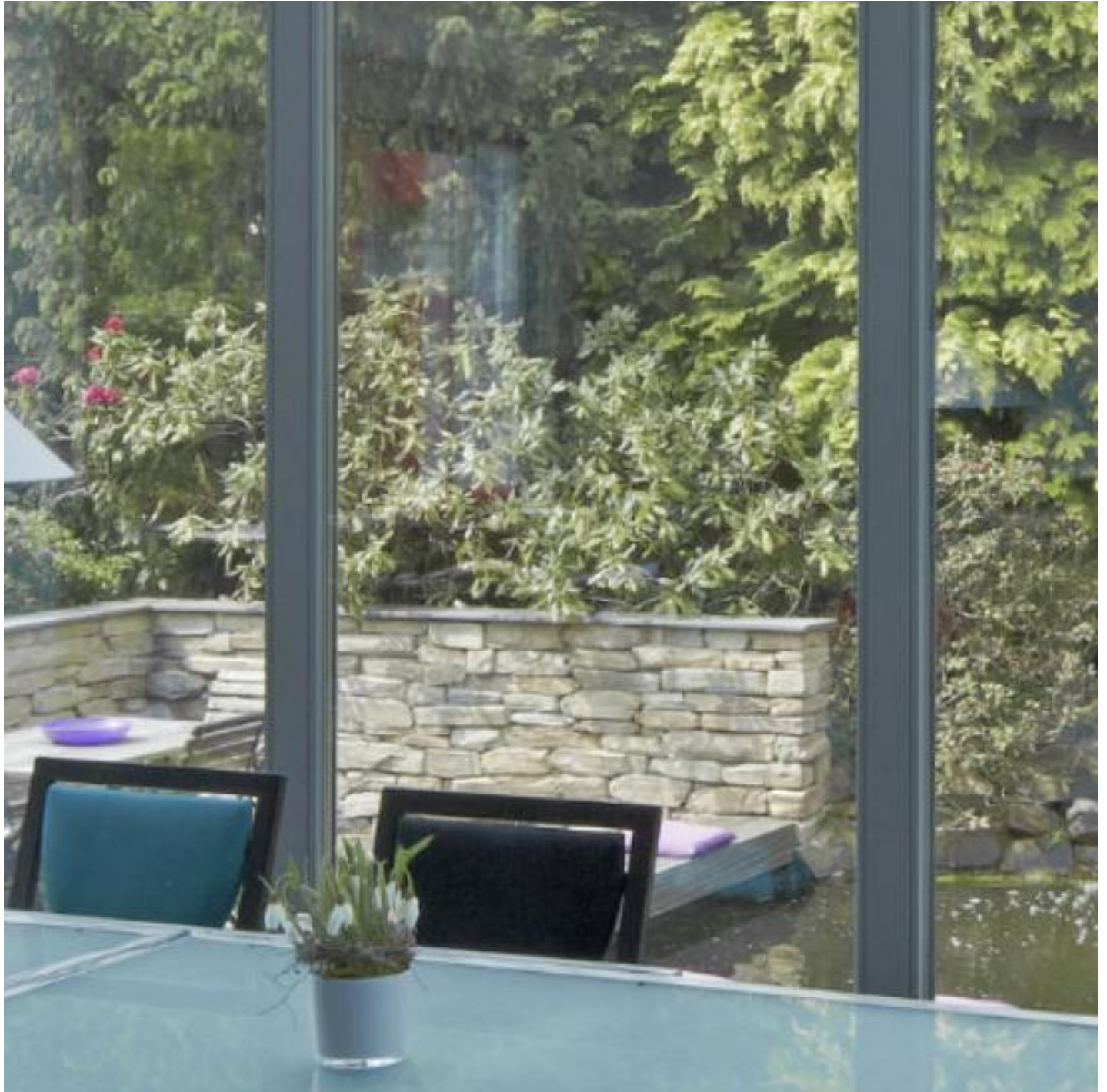
The coating is incorporated into our Natura and Aqua roof glass solutions for maximum solar control and is combined with [SGG PLANITHERM 4S](#) glass for maximum thermal insulation. The coloured tints on our roof glass also provide solar control as they absorb more heat and radiate it back to the outside. 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 SGG 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

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