ESG Solarchromic™ Climate Control Glass

With its electronically controllable tint, ESG’s Solarchromic™ Climate Control Glass not only reduces a building’s energy consumption, it is also an attractive design feature for any window, conservatory, velux or rooflight. Available in manual or automatic control, ESG Solarchromic™ panels can be controlled individually or as a multiple panel system.

Digitally responsive, ESG Solarchromic™ Climate Control Glass limits solar heat gain whilst adjusting the amount of glare. Reducing the need for blinds, it helps to create a more comfortable, stylish and sustainable glazed living or working space.

ESG’s Solarchromic™ is not simply a tinted glass. The intelligent glazed system uses electrical impulses to adopt new tones, instantly controlling the transmission of heat and light into a building. As an ideal adjustable solar controlled glass for windows, conservatories, loft conversions and glass roofs, it provides maximum comfort whilst saving a substantial amount of energy.

ESG Solarchromic™ is available in sizes up to 1350x3300mm, custom shapes and sizes, and can be combined with any of ESG’s range of LCD privacy, security or fire resistant glass products for a total glass solution.

Unique Features
- Creates a comfortable environment so that you can fully utilise your conservatory or glass room.
- Low energy consumption (only the change in transmittance uses electrical energy)
- Outstanding heat control in summer and a pleasant room climate
- Shading by dimming the glass instead of mechanical blinds or sunshades
- Significant reduction of glare and an unobstructed view to the outside
- Electrical systems with no visible wiring and discrete bus bars
- Costs for maintenance of shading systems can be saved
- Reduction in air conditioning costs
- Effective use of solar heating during winter
- Ideal component for “smart buildings”
- ESG Solarchromic™ wellness windows - the blue colour has a positive effect on performance

Benefits to our Customers
- Total glass solution with ESG Controllable Intelligent Glass Systems
- Full technical support and backup in the UK
- Supply and installation service
- Electrical systems supply and fit service available
- Solutions for a wide variety of applications
- UK and European-wide delivery service on ESG’s own fleet
- Crating and shipping export service

Applications
- Conservatories, orangery roofs, windows
- Skylights/Velux
- Rooflights
- Facades
Technical Specification

- **Glass Colour:** Blue
- **Maximum pane size:** 1350mm x 3300 mm
- **Minimum pane size:** 0.2 m²
- **Electrical power needed to change the setting approx:** 1.5 W/m²
- **Supply voltage for the control units:** 24 V
- **Time needed to switch between the lightest and most intensive colouration approx:** 15 Min
- **Warranty:** 5 years
- **Optional control:** EIB/KNX, LON, LCN, VI, CIONE, BACnet, Elsner

Spectrophotometric Data Calculations

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<td>Double glazing unit (standard IGU)</td>
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<td>9</td>
<td>0,5¹</td>
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¹) With Krypton-Gasfilling

The data provided is based on our finding to date and vary depending on the project and product.

Typical Unit Construction

Example Construction

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