

ESG clarity/glass



clearly the perfect choice

ESG Glass provides and an outstanding non-reflective glass, created by Guardian Glass and offered in the UK by ESG.

Clarity maximises light transmission while reducing glare and visual distortions to provide the clearest possible view through a glass pane to date.

Created through advanced technology, by applying a highly specialised glass coating, Clarity reduces reflection from a standard 8% in ordinary annealed glass, to as little as approximately 0.7% on the finished product. Using Clarity, light transmission is increased from a standard 90% in uncoated annealed glass to an outstanding 98% in Clarity.

This provides a near flawless, distortion-free view through the glass, allowing the viewer to look directly through, rather than at, the glass, especially in applications where reflections can cause nuisance, such as shop windows, display cabinets and viewing portals.

Clarity is the perfect choice for retail displays, both on the exterior of the store, and for exhibiting high value goods instore.

This is destined to be the favoured choice of jewellers, giving the best view of exquisitely crafted gems and precious metals within display cases. Clarity glass can also be combined with technical interlayers to provide added security, to produce P8B security glass. This will prove particularly popular with retailers of exquisitely crafted jewellery and watches, as well as a vast array of other designer goods.

In museums and art galleries, Clarity is also destined to be a glass of choice, allowing unimpeded viewing of carefully curated museum collections and works of art behind glass. However, it also adapts with ease to larger scale projects, providing an amazingly clear option for facades, atriums and entrances for galleries, museums, stadiums, and corporate offices.

Clarity can be provided either as a monolithic glass, with the non-reflective coating on both sides or can be laminated for added strength and resilience. In laminated glass panels, one side of each pane is coated, so that the finished laminated Clarity glass panel is coated on each side, for maximum clarity and optimum visibility through the glass.

applications

shopfronts • jewellers • museums • display cabinets • art galleries
facades • atriums • stadiums • corporate offices



quality standards

Heat-soak testing: Conducted in accordance with 'Glass in building – Heat-soaked thermally toughened soda lime silicate safety glass – BS EN 14179 (pts 1&2) : 2005. Testing to the German DIN standard 18516 is available on request. A copy of the heating profile graph can be provided as supporting evidence that the Heat-soak test has been conducted correctly.

Heat-strengthened glass is sometimes confused with Heat-soak tested glass. This is annealed glass that is heat treated by raising its temperature to 700° C and then cooling it more slowly than toughened glass. It is not a safety glass and breaks in a similar way to ordinary annealed glass. The process adds strength (twice that of annealed glass) and thermal safety. Maximum thickness is 12 mm.

Laminating: conducted in accordance with 'Glass in building – Laminated glass and laminated safety glass – BS EN 12543 (Parts 1-6 : 1998 and BS EN 14449 : 2005).

Safety: ESG Tufflam satisfies all safety glazing requirements of BS 6262 : Part 4 : 'Safety related to human impact', Regulation 14 of the Health and Safety at Work Act as well as Approved Document N of the Building Regulations. It is particularly suited to areas where enhanced performance is required.

