



## NATURALLY CLEAR FLOAT GLASS

The powerful, positive, and limitless resource of natural light embraces our world, brightening our lives, and helping us to see the beauty around us more clearly. Add GUARDIAN's UltraClear™ to your design, and discover how your creative vision can be enhanced by this sophisticated, multipurpose product.

Manufactured using the latest advanced glassmaking technology, UltraClear™ combines attractive aesthetics with technical benefits, its sheer beauty making it perfect for all interior and exterior designs. When true colour and clarity count, UltraClear™ is the natural choice.

UltraClear™ takes natural light a step further. With higher transparency and a more neutral colour, the advantages are clear to the naked eye:

**BETTER VISIBILITY**

**HIGHER CLARITY**

**UNSURPASSED ELEGANCE**

The stunning clarity of UltraClear™ makes it the first choice for:

## ARCHITECTURE

- Modern residences, offices, hotels and malls, double-skin facades

## INTERIOR DESIGN

- Windows, doors and partitions, staircases, kitchen and bathroom fittings, furniture, table tops, screen printing, acid etching, ceramic decoration

## INDUSTRY

- Shop windows, display cases, plaques and awards, aquariums, food and beverage machines, solar collection, greenhouses, spandrel glass

## SECURITY

- Bullet-resistant, blast-resistant, and forced entry (anti-bandit) glass

UltraClear™ can be tempered, laminated and painted just like regular float glass and can be used virtually anywhere regular float glass can. UltraClear™ provides a dramatic improvement when used in laminated applications. Until now, the typical result when laminating conventional clear float glass was color distortion and a reduction of visible light transmission as the laminate thickness increased. UltraClear™'s combination of strength, security and distortion-free vision equals unparalleled performance.

Thickness [mm]	Light Transmission [%]	Light Reflection [%]	Colour Rendering Index [R <sup>3</sup> ]	Energy Transmission [%]	Energy Reflection [%]	Energy Absorption [%]	Solar Factor g [%]	Shading Coefficient [SC]	UV Transmission [%]
2	91.5	8	100	91	8	1	91.2	1.05	85
3	91	8	100	90.5	8	1.4	91	1.04	83
4	91	8	100	90	8	1.6	90.5	1.04	81
5	91	8	100	90	8	2.3	90	1.03	79
6	91	8	100	89	8	2.7	90	1.03	77
8	90.5	8	100	88.5	8	3.6	89	1.02	74
10	90	8	99	88	8	4.3	89	1.02	71
12	90	8	99	87	8	5.2	88	1.01	69

All GUARDIAN Float Glass products comply with EN 572-2: 1994 "Glass in Building – Basic Soda Lime Silicate Glass Products – Part 2: Float Glass" standards, and DIN 1249-10: 1990 "Glass in Building: Chemical and Physical Properties" standards.

All light and energy values have been measured and calculated according to EN 410.

All data are nominal values, subject to product tolerances, and without any obligation.

To see the clarity of UltraClear™ for yourself, and discover how it can enhance your project, please contact:

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Disclaimer: The information contained in this publication is a general description of the product ClimaGuard® 1.0 and GUARDIAN hereby disclaims all liability arising from any inaccuracy in or omissions from this publication and all the consequences of relying on it. It is the responsibility of the users of this information to ensure that the intended application of UltraClear™ is appropriate and complies with all relevant laws, regulations, standards, codes of practices and other requirements. It is recommended that fabricators of UltraClear™ consult the Processing Guidelines provided by GUARDIAN for specific instructions on how to handle, store, treat, process, use and install UltraClear™ products successfully. The Processing Guidelines are provided with the first delivery of UltraClear™ or can be obtained directly from GUARDIAN.