

Crystal Series Glass Products

SGC developed a brand new Crystal Series of glass products, with the latest advanced low iron glass technology, outstanding performance and a range of amazing colors, providing architects with exceptional options to meet the developing trend of architectures. All the products are created by using low iron crystal-like glass.

Characteristics

Ultra Clear Low iron glass is manufactured with a lower iron content, resulting in a clear, color- neutral glass. Reducing the iron and using new raw material formulas increases light transmission higher than 91% and reduces the greenish tint in clear glass. It is a new kind of high quality material which has super physical, mechanical and optical performance, such as lower spontaneous breakage(Nickel Sulfide) in tempered glass. Moreover; it has the feature of crystal and elegance.

Availability

Ultra Clear Low Iron Glass is available in thickness ranging from 2mm to 25mm, Tempered, Acid Etched, Silvered Mirror, Color Painted, Laminated and Low-e coated IGU etc. It is also available in a wide variety of product combinations, bringing color neutrality to almost any application.

Fabrication

Ultra Clear Low Iron Glass can be fabricated, laminated, painted, cut, and tempered just like ordinary float glass.

Low Iron Glass Fabrication:

- Insulating
- High-Performance Coatings
- Insulating Laminated
- Edge work

- Laminated
- Triple Insulating
- Spandrel
- Acoustical
- Holes / Notches

- Silk-Screened
- Heat Strengthened, Flat Tempered
- Bent Tempered
- Heat Soaked

- Digital Printing

Mechanical Parameters

Elastic modulus	73.1Gpa
Break modulus (tensile ultimate strength)	41.4 Mpa
Knoop hardness	456kgf/mm2

Physical Parameters

Density	2.5076 g/cm3
Coefficient of linear expansion 20-300°C	9.28×10-6/°C
Coefficient of linear expansion 20-450°C	9.75×10-6/°C
Transition Temperature	556°C
Yield point or softening temperature	606°C
Softening Point	710°C
Annealing Point	547°C
Stress points	513°C
High temperature viscosity log2	1392°C
log3	1152°C
log4	996°C
Liquid temperature	1008°C

Products:

Ultra Clear Low Iron Glass

Ultra Clear Low Iron Tempered Glass

Ultra Clear Low Iron Silk Screened Glass

Low Iron Spandrel Glass

Low Iron Satin Etched Glass/ Etched Painted Glass

Low Iron Matt Etched Glass

Low Iron Non-slip Pattern Glass

Low Iron Mirror

Low Iron Satin Etched Mirror

Low Iron Painted Glass

Low Iron Low-e Coated Glass

Low Iron Laminated Glass/Swath Private Glass

Custom Low Iron Laminated Glass with SGP interlayer

Custom Low Iron Laminated Glass with Vanceva interlayer

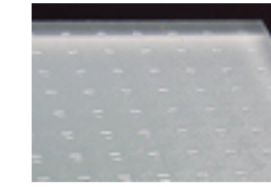
Custom Low Iron Low -E Insulated Glass Units

Low Iron Anti-reflective glass

Application

1. Architectural interior and exterior (facade, lobby glass doors, skylights, glass ribs, glass ceiling, partitions, walls, rails, stairs, etc.): its unique high transparency so that the building has a natural, transparent, avant-garde artistic effect, more in line with modern design.
2. Display showcase and window: as museums, galleries, jewelry and clothing stores display cabinets and windows, can truly reflect the quality and color display items.
3. Appliances: You can make plasma TV screens, high-end visualization refrigerator door, high-grade microwave oven panel, freezer cover, range hood glass, etc., to improve product quality and beauty.
4. High-end crafts, lamps: crystal clear as crystal, gives excellent visual effects.
5. Glass furniture and bathroom products: making furniture and bathroom more modern, beautiful and stylish.

SGC LOW IRON GLASS PRODUCTS



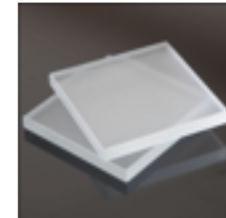
LOW IRON ETCHED PATTERN GLASS

Thickness: 6mm, 10mm , 12mm
Stock sizes: 84" x 130", 84" x 144"
96" x 130", 96" x 144"



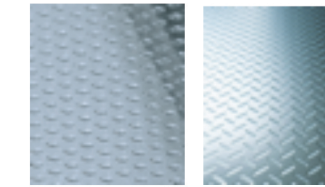
LOW IRON PAINTED GLASS

Thickness: 6mm
Stock sizes: 84" x 130", 84" x 144"
96" x 130", 96" x144"



LOW IRON CERAMIC FRITTED GLASS

Thickness : 3mm -19mm
Stock sizes: Custom Sizes only



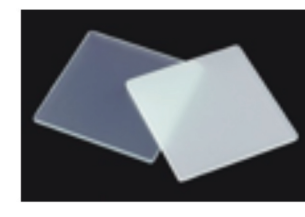
LOW IRON NON-SLIP GLASS

Thickness: 6mm, 10mm , 12mm
Stock sizes: 84" x 130", 84" x 144"
96" x 130", 96" x 144"



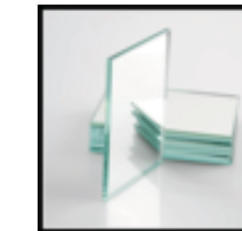
LOW IRON LAMINATED WITH SGP

Custom Made only



LOW IRON LAMINATED WITH VANCEVA

Custom Made only



LOW IRON ULTRA CLEAR MIRROR

Thickness: 3mm, 5mm, 6mm
Stock Sizes: 72" x 96", 72" x 130"
84" x 130", 84" x 144"
96" x 130", 96" x 144"



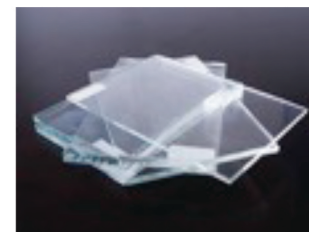
LOW IRON ULTRA CLEAR HARD COAT LOW-E GLASS

Thickness: 6mm
Stock sizes: 84" x 130", 84" x 144"
96" x 130", 96" x 144"



LOW IRON ULTRA CLEAR DOUBLE SILVER LOW-E GLASS

Thickness: 6mm
Stock sizes: 84" x 130", 84" x 144"
96" x 130", 96" x 144"



LOW IRON CLEAR GLASS

Thickness: 2mm - 25mm
Stock Sizes: 72" x 96", 72" x 130"
84" x 130", 84" x 144"
96" x 130", 96" x 144"



LOW IRON SATIN ETCHED GLASS

Thickness: 3.2mm ,6mm,10mm,12mm
Stock Sizes: 72" x 96", 72" x 130"
84" x 130", 84" x 144"
96" x 130", 96" x 144"



LOW IRON LAMINATED GLASS

Thickness: 6.76mm,10.76mm,12.76mm
Stock Sizes: 72" x 96", 72" x 130"
84" x 130", 84" x 144"
96" x 130", 96" x 144"