

China 5mm Clear Tempered Glass Factory

About 5mm Clear Tempered Glass

5mm clear tempered glass, also toughened glass, hardened glass, reinforced glass, ESG glass, impact resistant glass, is fabricated by heating [5mm clear float glass](#) to over 600°C and cooling it rapidly, which locks the outer surfaces of the glass in a state of high compression, and the core or center of the glass in compensating tension. It is a safety glass which is used when strength, thermal resistance and safety are important considerations.

5mm Clear Tempered Glass Characteristic

High Strength

The tempered glass performs well in resisting bending and hitting owing to its high strength which is 3-5times that of normal float glass. It is able to withstand a surface pressure of 95Mpa.

High Safety

When the tempered glass is broken, it turns into alveolate granules with obtuse angles, which guarantee safety to make sure human harmless, and the toughening process greatly reduces the risk of thermal breakage to ensure less loss.

Heat Stability

The tempered glass is capable of withstanding a temperature change of 250 to 320°C while normal annealed glass can only bear 20 to 100°C.

Performance Comparison

Items	Tempered Glass	Semi-tempered Glass	Normal annealed glass
Safety	Best	General	None
Intensity	152Mpa	/	30-90Mpa
Thermal Stability	250-320°C	100°C	20-100°C
Surface Stress	95Mpa	24-69Mpa	/
Broken State	Obtuse-angle grain	Shooting-broken	Sharp

5mm Clear Tempered Glass Specification

Available size: Maximum 3000*8000mm, Minimum 150*300mm, any customized size.

Beveling edges, cutting notches, drilling holes, grinding corners, etc. all could be done, but must be done before tempering.

Edge work

Any edges could be done perfectly on 5mm clear toughened glass, like flat polished edge (T edge), pencil edge (C edge), beveled edge, ogee edge, matt edge, corner round edge.

Holes and notches

Tempered glass can be supplied with drilled holes (no matter straight or conical) and cut notches. We will consider hole and notch locations and size according to your drawings. Please kindly check below details:

Glass edge to nearest point of hole	5mm clear toughened glass should not have holes located any closer than 1.5 times the thickness of the glass.
Glass corner to nearest point of hole	Holes should not be located any closer than 6.5 times the thickness of the 5mm clear toughened glass.
Dimension of holes	The minimum dimension of a hole should not be less than the thickness of the glass. The maximum dimension of the hole should not be more than 1/3 the narrowest dimension of the piece.
Notches and cutouts	All must have a fillet with radius equal to, or greater than the thickness of the glass.

Shapes

Except rectangle 5mm clear tempered glass, Jimy Glass also could do shape 5mm clear tempered glass, like round , Trapezoid, parallel, etc.

5mm Clear Tempered Glass Application

- Used in interior like bathroom glass shelves, glass partition walls, etc.
- Used in exterior like window glass, greenhouse glass, etc.
- Used on furniture like table top glass, cabinet door glass, etc.
- Many Others.

Tempered Glass Quality Standard

In accordance with EN12150 European tempered glass standard

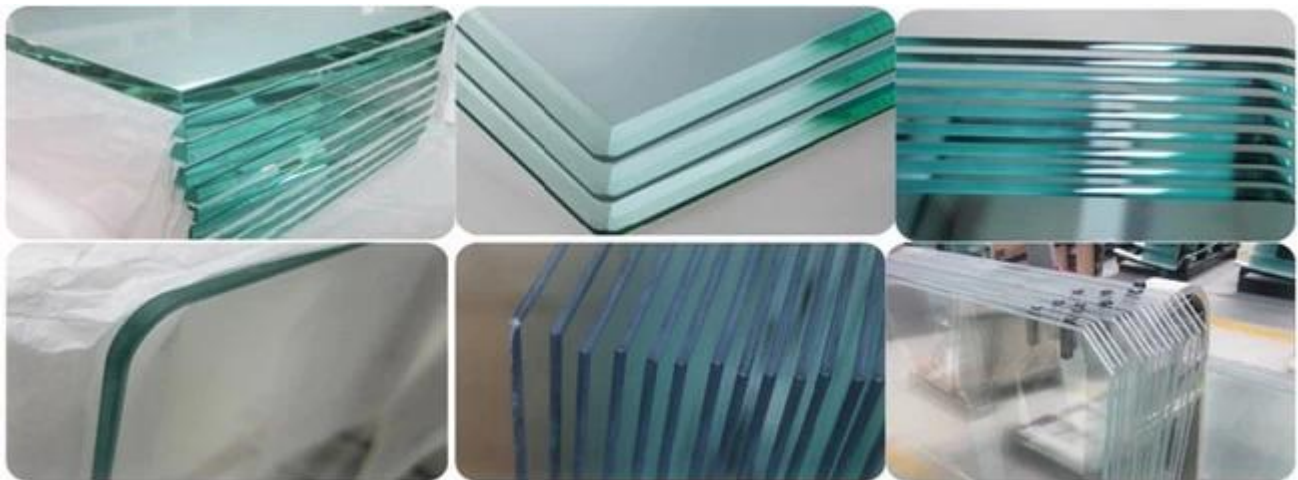
In accordance with ASTM1048 American Standard

In accordance with GB 9963-1998 Tempered Glass Standard

In accordance with GB 17981-1999 Chinese Standard Tempered and Heat-Strengthened Glass

Pass Chinese Safety Glass Compulsory Certification (CCC), IGCC, CSI.

Processing Safety Tempered Glass



Difference when float glass and toughened glass broken



Tempered Glass Furnace



Tempered Glass Safety Packing

