

# **SGG 8MM CLEAR TOUGHENED GLASS- ISO 9001/ CE EN12150 / BS 6206 /CCC Standard Quality**

8mm Clear Toughened Glass is cut **8mm clear float glass** into customized size, then pass them into tempered furnace, which the heating to near glass softening point of 600-650 degrees, then rapidly cooled, which let the outer surface of the glass in a state of high compression, and the core or center of glass in compensating tension.

8mm Toughened glass has good mechanical properties, heat resistance and impact resistance, also known as 8mm tempered glass. After processing, the 8mm toughened glass surface has uniform compressive stress. The strength of 8mm tempered glass is 5 times than good annealing **8mm float glass**. The impact resistance is greatly improved as well. Tempered glass become mesh cracks after broken or produce small particles, will not hurt human. It is also known as safety glass

## **Tempered process:**

1. physical tempered glass, also known as hardened tempered glass/strengthened tempered glass. The glass is internally tension, externally stressed and when locally damaged, stress is released and the glass is broken into numerous small pieces that do not have sharp edges and corners.

2. chemical tempered glass by changing the glass surface of the chemical composition to improve the strength of the glass, the general application of exchange for tempered glass.

## **Degree of tempered:**

1. Fully toughened glass: tempered degree = 2 ~ 4N / cm, tempered glass surface stress  $\alpha \geq 95\text{Mpa}$ ;
2. Semi toughened glass: tempered degree = 2N / cm, semi-tempered glass surface stress  $24\text{Mpa} \leq \alpha \leq 69\text{Mpa}$ ;

## **Featurers:**

- 1, high impact strength, 5 times higher than 8mm ordinary float glass
2. bending strength, 5 times higher than 8mm ordinary float glass
3. thermal stability, Tempered glass thermal impact performance is very good, the maximum safe working temperature is 287.78°C and can withstand the temperature difference of 204.44°C
4. safety glass, the impact resistance is greatly improved as well. Tempered glass become mesh cracks after broken or produce small particles, will not hurt human. It is also known as safety glass

## **Applications:**

As tempered glass has good performance, so it is widely used in the automotive industry, construction and military industries and other fields. Toughened glass commonly used for high-rise building doors, windows, walls, shielding and shop windows, warships and ships portholes and desktop glass.

1. construction, building, decoration industry (such as: doors and windows, curtain walls, interior decoration, etc.)
2. furniture manufacturing industry (glass coffee table, furniture, etc.)
3. appliance manufacturing industry (TV, oven, air conditioning, refrigerators and other products)
4. daily-use products industry (glass cutting board, etc.)

### **Specifications:**

Sun Global Glass supply tempered glass with full range of colors, thickness and glass substrates.

1. Glass colors: clear, extra clear, frosted, bronze, gray, green, blue, reflective glass colors, printed colors, and low-E tempered glass.
2. Tempered Glass Type: Tempered glass has ordinary tempered glass, heat absorption tempered glass, polished tempered glass and other varieties. Tempered glass products include flat tempered glass, curved tempered glass, semi-tempered glass and fully tempered glass
3. Glass thickness: 4mm 5mm 6mm 8mm 10mm 12mm 15mm 19mm
4. Glass size: minimum size 300x300mm, maximum size length 8000mm
5. Edge work: Flat polished edge, chamfer edge, beveled edge, waved edge, OGEE edge, triple OG edge, and others.
6. Drilling holes: holes diameter need to be bigger than glass thickness.
7. Cut outs: all types of cut outs for different accessories. Our accurate cutting and measurements promoted the implementation of installers.
8. Safe corner: safety corner could greatly reduce the hurt to human by attack.
9. it is strictly prohibited splashing sparks in the usage of tempered glass. Otherwise, when it is subjected to wind pressure or vibration, the scar will gradually expand, resulting in crushing.

### **Quality Control:**

1. Clear toughened glass 8mm meet BS 6206 UK safety glass standard.
2. Clear toughened glass 8mm meet EN 12150 CE European safety glass standard.
3. Clear toughened glass 8mm meet Chinese Safety Glass Compulsory Certification (CCC)

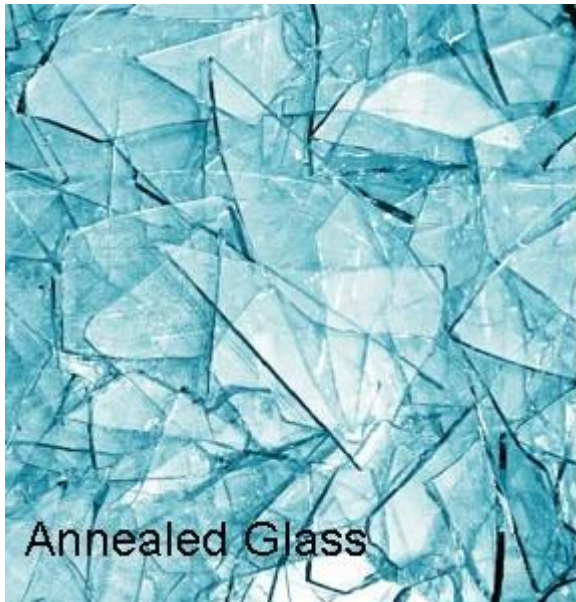
**Product Details:**

**Product pictures of Clear toughened glass 8mm:**



**Differences between Annealed Glass and Tempered Glass:**

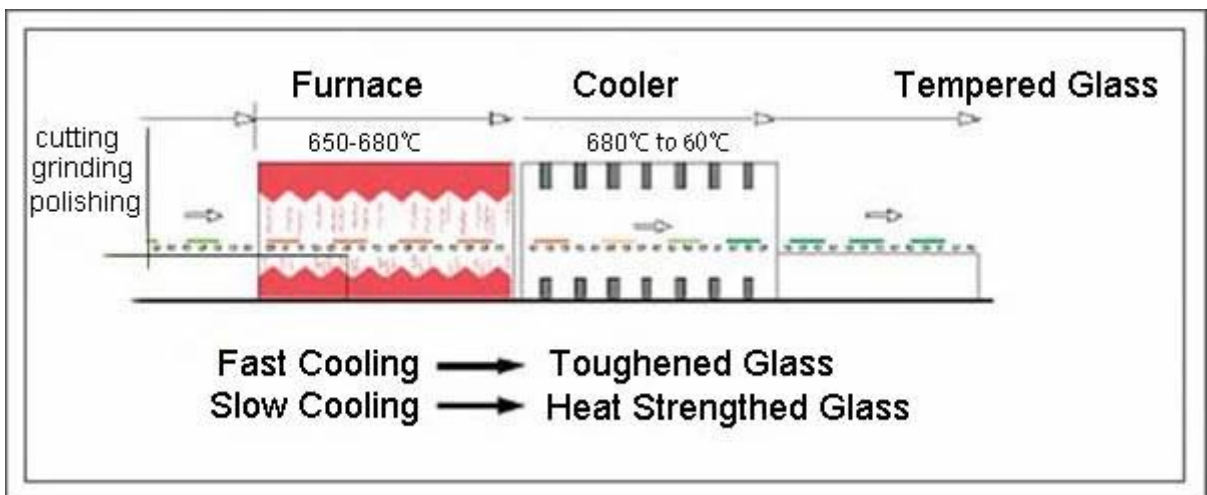
1. Clear toughened glass 8mm reduces the risk of injury due to its nature of breaking into small, circular pieces instead of sharp, jagged shards.
2. Clear toughened glass 8mm is ease of clean-up if they ever do break.
3. Clear toughened glass 8mm is 5 times strength than [8mm clear float glass panel](#).



**Holes and Cut outs:**



**Production Line:**

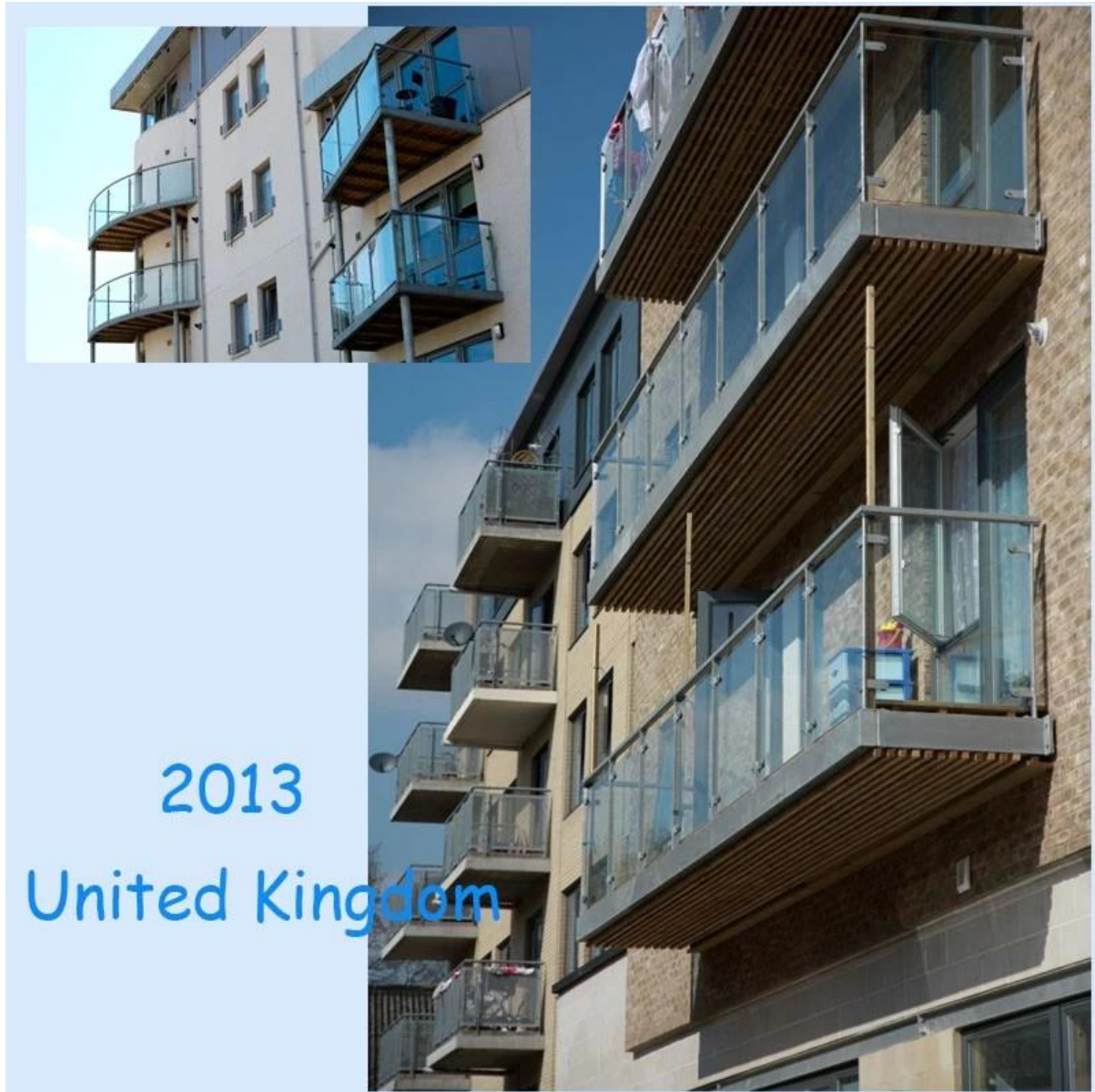




**Package and Loading:**



**Our Projects:**



2013

United Kingdom

**Our promise is that you receiving Clear toughened glass 8mm with high quality and safety condition from us.**