

## Customized size semi-tempered glass

### What's the semi-tempered glass?

Semi-tempered glass, also called heat strengthened glass, half tempered glass, compared with tempered (ESG) glass, half toughened glass is also heat rapidly and evenly to a temperature above 600°C, but the cooling process is not the same as the introduction of cold air is carried out in a significantly different manner. Flexile strength and resistance to temperature differences of semi-tempered glass are somewhere between those of ordinary float glass and tempered (ESG) glass. The structure after fracture is equal to the ordinary float glass.

### The features of heat strengthened glass

1. Glass thickness: 3mm heat strengthened glass, 4mm heat treated glass, 5mm half tempered glass, 6mm half toughened glass, 8mm semi-tempered glass, 10mm heat strengthened glass, [12mm heat strengthened glass](#), 15mm half tempered glass, 19mm semi-toughened glass
2. Glass size: max size 3300x8000mm, mini size 150x300mm
3. Glass color: clear, ultra clear, bronze, blue, green, grey, acid etched, sandblasting, etc.
4. Special processing: drill holes, cutout, polished edge, logo printing, etc. all need to be done before heat treated.

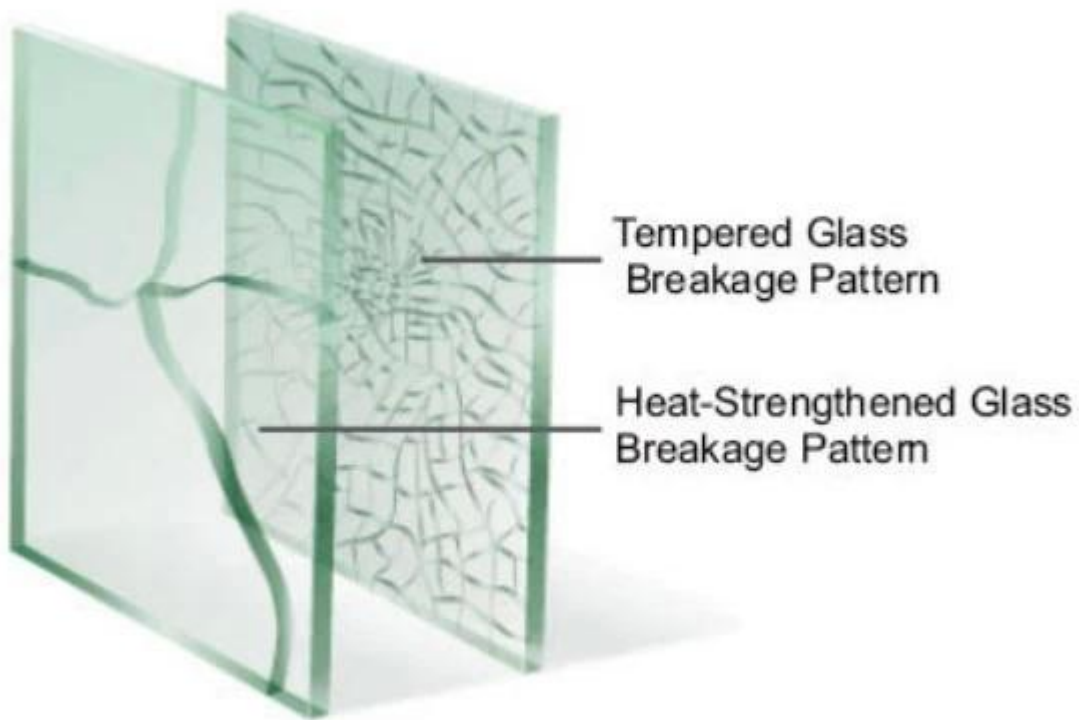
### Know more about heat-strengthened glass and fully tempered glass

- No matter half tempered glass or full tempered glass, special processing like cutting, hole-drilling, notching or edge working before heat-treated.
- Heat strengthened glass is about twice as stronger as annealed glass. full tempered glass is 4-5 times stronger than half tempered glass.
- Cooled rapidly, to be full tempered safety glass. Slower cooling produces heat-strengthened glass.
- Safety: tempered glass is the safety glass, it will shatter into tiny particles, reducing the potential for serious injury;

Though heat-strengthened glass may meet requirements for wind, snow and thermal loads, but fractures into larger, and sharper pieces.

- Lamination for consideration. Laminated interlayer, required for overhead glazing, can be used with annealed, heat-strengthened or tempered glass to combine several safety advantages into a single glazing solution, like annealed laminated glass, [heat strengthened laminated glass](#) and tempered laminated glass. Widely used for the places where safety glazing requirements.

- Heat strengthened glass is far less susceptible to spontaneous breakage;



### **The applications of semi-tempered glass**

Heat strengthened glass is widely used in laminated glass for additional strength, for instance, in overhead and sloped glazing; or to be made as [half tempered insulated glass](#), used for window, facades, and so on.







