

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.

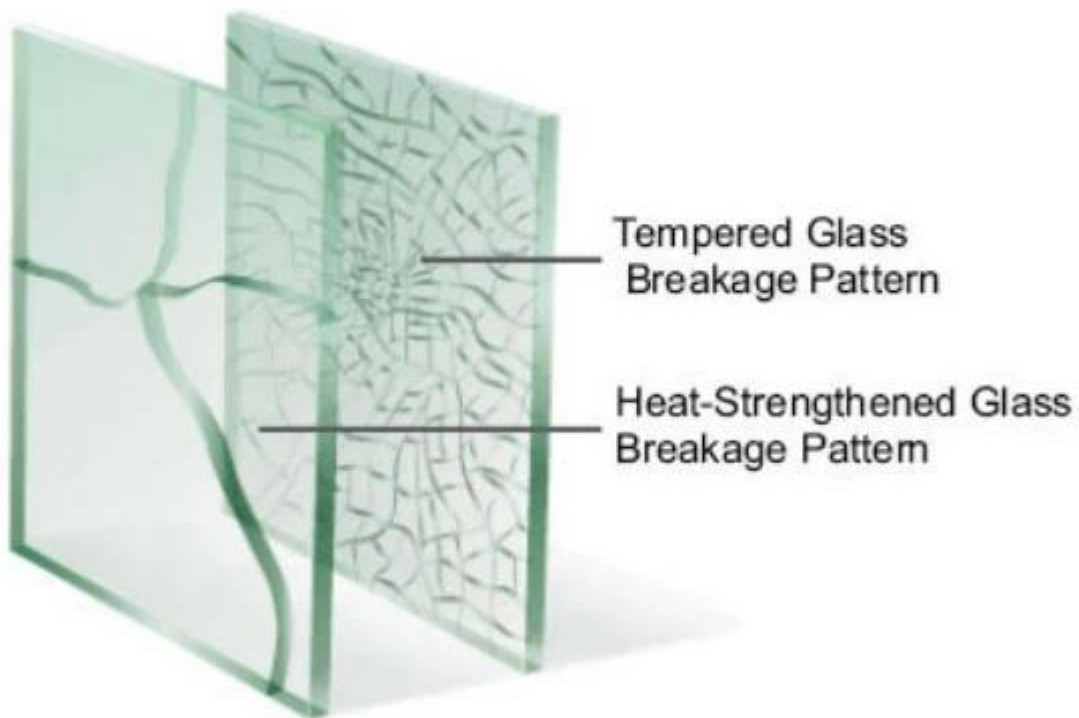
Know more about heat-strengthened glass and fully tempered glass

- 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 strong 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.





