

# China professional Half tempered toughened glass factory, heat strengthened building glass factory

## What's the heat strengthened glass?

[heat strengthened glass](#), also called semi-tempered 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. Flexible strength and resistance to temperature differences of semi-tempered glass are somewhere between those of normal float glass and tempered(ESG) glass. The structure after fracture is equal to the normal float glass.



## The features of half tempered 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 3300x13000mm, mini size 300x300mm
3. Glass color: clear, ultra clear, bronze, blue, green, gray, acid etched, sandblasting, etc.
4. Special processing: drill holes, cutout, polished edge, logo printing, etc. all need to be done before heat treated.



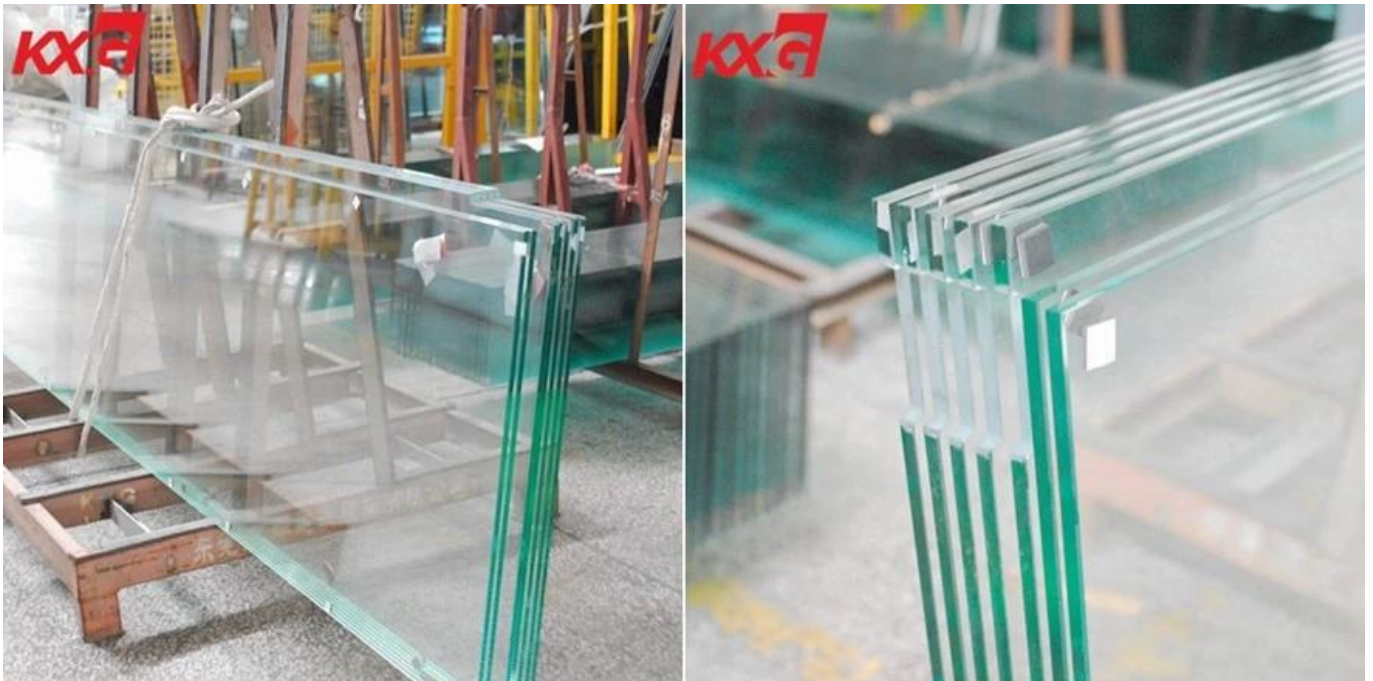
## Know more about heat-strengthened glass and fully tempered glass

1.No matter half tempered glass or full tempered glass,special processing like cutting, hole-drilling, notching or edge working before heat-treated.

2.Heat strengthened glass is about twice as stronger as annealed glass. full tempered glass is 4-5 times stronger than half tempered glass.

3.Cooled rapidly, to be full tempered safety glass. Slower cooling produces heat-strengthened glass.

4.Safety: tempered glass is the safety glass, it will shatter sin to tiny particles, reducing the potential for serious injury;



## 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.

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