

## Heat soaked test glass suppliers heat soaked toughened safety glass manufacturer

[Heat soak test](#) is also called "detonation." Heat soak test is to heat the tempered glass to  $280^{\circ}\text{C} \pm 10^{\circ}\text{C}$ , and keep it for a certain time. Promote the rapid completion of crystal phase transformation of nickel sulfide in tempered glass, so that it can be self-explosive after the original use. The tempered glass is artificially broken in the hot dip furnace of the factory in advance, thereby reducing the self-explosion of the tempered glass in use after installation. This method generally uses hot air as a heating medium, called "Heat Soak Test", referred to as HST. Widely used for high rise glass facades, overhead glazing, balconies and [balustrades](#).



## Heat Soak Test Process

### Warming up

The warming phase begins at the ambient temperature at which all of the glass is located, ending at the time when the last glass surface temperature reaches  $280^{\circ}\text{C}$ . Keep the temperature of the glass surface below  $320^{\circ}\text{C}$ , and try to shorten the time when the glass surface temperature exceeds  $300^{\circ}\text{C}$ .

### Keep warm

The holding phase begins at a time when all glass surface temperatures reach  $280^{\circ}\text{C}$  and the holding time is at least 2 hours. During the entire incubation period, it should be ensured that the temperature of the glass surface is maintained within the range of  $290^{\circ}\text{C} \pm 10^{\circ}\text{C}$ .

### Cool down

When the glass that finally reached  $280^{\circ}\text{C}$  was finished for 2 hours, the cooling phase was started. At this stage the glass temperature drops to ambient temperature. When the furnace temperature drops to  $70^{\circ}\text{C}$ , the cooling phase is considered to be terminated. The cooling rate should be controlled to minimize the damage caused by the thermal stress of the glass.



## Applications of heat soaked glass

Heat soaked tempered glass, it could makesuperior quality HST toughened laminated glass, HST tempered insulated glass,heat soaked tempered laminated double glazed units, widely used for:

- High rise glass [facades](#)
- Glass balustrade, glass balcony railings,glass handrails, glass pool fence
- Overhead glazing, glass roof, glassskylight, etc.
- Any applications where is safetyrequired.

## Heat soak test package in Kunxing Glass

