

Tempered Glass to protect people and property



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Glass transformers use sheets of flat glass as the main raw material and transform it into products that can be directly used on worksites or delivered to end users.

The mechanical strength of glass can be increased by a heating and rapid cooling operation that hardens the glass surface. This tempering process requires solid expertise. An industrial facility with a specific furnace is needed. This is: tempered glass.

This process significantly increases glazing mechanical strength and resistance to thermal shock. Its specific fragmentation allows this glass to be considered a safety product in various applications.

Saint-Gobain's toughened glass process was developed to meet the requirements of applications where the glass is subjected to high levels of mechanical stress. Should the glass shatter, it will break into small dull

pieces of glass.



Annealed Glass



Toughened Glass

Glazing characteristics of tempered glass

FRAGMENTATION

Should the glass break, it will fragment into small pieces with dulled edges, thereby greatly reducing the risk of injury.

INCREASED RESISTANCE TO MECHANICAL STRESSES

Toughened glass offers impact resistance and bending strength up to five times more than annealed glass of the same thickness.

INCREASED RESISTANCE TO THERMAL STRESSES

It offers greater resistance to thermal stresses than ordinary float annealed glass.

GLAZING PACKAGES

Glazing treated and assembled using metal elements can be used for large glazed areas to minimize the appearance of support structures.

TRANSPARENCY

Used for doors, tempered glass promotes good lighting in corridors or rooms that are far from external windows, while retaining the same spectrophotometric characteristics as the base product of the same

thickness prior to undergoing heat treatment.

Choose well-being and security with our tempered glass.

Find out more



Safety & Protection

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