Tempered Glass

- Tempered glass

Product Introduction

Tempered glass is heated to the softening temperature of the glass even after the rapid cooling, so that the glass surface to obtain compressive stress of the glass. During the cooling process, the tempered glass will be quickly solidified due to external, but internal cooled slowly. Therefore it increases the strength and thermal stability of the glass.

Performance characteristic:

1. High strength
2. Safety
3. Bearing the heat shock

Half toughened glass

Half toughened glass is also called heat strengthened glass, tempered glass and its production process basically the same: it is heated to near the glass softening temperature after cooling from uniform. In the cooling process, due to the smaller cooling air pressure, cooling rate slower than the cooling rate of glass, which the intermediate layer and the temperature coefficient of the surface is relatively small, resulting in the density difference between layers is relatively small, resulting in pressure values should be less.

Performance and characteristics:

1. High Intension
2. Heat resistant toughened glass
3. Half tempered glass has not the self-blast phenomenon.

Quality standard:

accord with BSEN12501£1-2000 British standard and ASTMC1048 standard of the United States of America.

Specifications: Maximum size: 3000mm×6000mm
Minimum size: 300mm×460mm;
Thickness range: 4mm—to 25mm
- **Curved Tempered Glass**

![Curved Tempered Glass](image)

**Product introduction**

Curved tempered glass is that the original float glass to be heated to its softening temperature so that the glass bending, and then cooled down rapidly by special facility. Hot curved tempered glass

Hot curved tempered glass is that the original float glass to be heated to the softening temperature, by weight or external force to bend and shape throughout the natural cooling to be glass products.

**Performance characteristic:**

Safety, impact strength, thermal stability is same as the flat tempered glass, the wind pressure resistant strength and deflection performance are better than the flat tempered glass.

Curved tempered glass is mostly applied to the arc shape of glass curtain wall, ceiling lighting, sightseeing elevator, indoor arc glass partition, glass railing, indoor decoration, furniture etc. Hot curved tempered glass is used for furniture, cabinets, double curved surface and the cone type building.

**Product variety:**

Colored float glass, colored coating film and low-E and its composite hollow, laminated glass products.

Color: white, ultrawhite, green, blue, grey, tea, coated glass.

Curved tempered glass processing specifications:

- The largest size: 2440mm x 4200mm
- The minimum size: 600mm x 400mm
- The minimum bending radius: 800mm (5-6mm thickness) 1000mm (8-12mm thickness) 1500mm (15-19mm thickness)
- Maximum height of arch: 700mm
- Thickness: 5mm-19mm

Hot curved tempered glass processing specifications:

- Maximum size: 2440mm x 5000mm, arc slotted angle <90iā
- Processing thickness: 4mm-19mm

**Low-E Glass**
LOW-E production line

Introduced the world's advanced synchronization technology LOW-E production line can produce single and double silver LOW-E, solar control film, the maximum size 2540mm 6000mm, with colorless, transparent color, silver gray, light gray, light blue, light green, blue, gold, burgundy and other colors, different shades of each color and a color, a color to achieve diversification to meet the requirements of building the appearance of different colors.

Quality Standard: GB/18915.2 (coated glass national standards)

Double silver LOW-E glass

Product Features

Double silver LOW-E glass is a kind of LOW-E glass coating system structure and it is more complex. It highlights the glass on the solar heat radiation masking effect and it is a clever combination of high light transmission glass with low solar radiation through.

Characteristics:

1. High visible light transmittance: natural light good
2. Lower shading coefficient SC: effectively limit solar heat by radiation, especially through the near-infrared thermal radiation
3. Lower U-value: more effective in limiting the background of the summer outdoor heat Radiation into the interior, better insulation in winter.

Application

Regional restrictions are not suitable for large areas of different climatic characteristics. Off-site processing and can be tempered LOW-E glass LOW-E glass

An ordinary film system structure, the metal silver film is its main feature film. Its soft texture, combined with other film weak, thus requiring a short time after the film must use synthetic insulating glass. LOW-E glass through the improvement of film structure, enhance the film adhesion and film structure stability, which can be manufactured off-site processing of LOW-E glass can be tempered with the LOW-E glass.

LOW-E glass product category: composite glass: the glass can be combined with other low-E coating made of hollow (laminated) glass, and combinations of composite products. It can provide colorless, transparent, silver, blue, light blue, light green and other colors. There are different shades of each color and tone to achieve a wide range of colors to meet different design requirements.

Dimensions

Standard Glass Size: 2440mm 3660mm; produce large plate glass size: 2540mm 4500mm Thickness: 3mm-19mm
• Reflective glass

Coated Glass also is known as reflective glass. Coated glass is coated on the glass surface of one or more layers of metal, alloy or metal compound film to change the optical properties of glass, to meet certain requirements. Coated glass according to the different characteristics of products can be divided into the following categories: heat-reflective glass, low-E glass, Low-E, conductive film glass.

• Insulating glass

Insulating glass is composed of two or more pieces of glass inside the aluminum box filled with molecular sieve adsorbents interval of a certain width of the space, then the edge of high-strength adhesive sealant made of glass components. The company has Number of imported insulating glass production line, choose high-quality float glass sheet and hollow auxiliary materials, insulating glass to ensure excellent performance and have the following characteristics:

Thermal properties: the lower the U value (heat transfer coefficient), inert gas is more effective
Optical properties: according to actual needs, a very flexible choice of different sunlight projection and reflection
Compartment properties: insulating glass generally reduces the noise 30 dB, while the inert gas can be based on the original and then reduced by 5 decibels
Anti-condensation properties: the state of the insulating glass than the dew point (-40 ñ) lower to -65 ñ, ensure that the insulating glass seal and extend the life of insulating glass.
Sealing: aluminum frame (frame interval) once formed butyl rubber and polysulfide rubber or plastic structural double sealed to ensure the sealing and insulating glass to extend the life of insulating glass.
Laminated Glass

Product Introduction

Laminated glass is introduced between the glass folder tough polyvinyl butyral (PVB) intermediate modulus, high temperature high pressure processed into composite glass. Toughness of PVB glass is very good, in the laminated glass broken by external violent impact, and the film will absorb a lot of impact energy, and make rapid decay, so the laminated glass is difficult to breakdown. Even laminated glass broken, glass fragments basic on the adhesion of the film, laminated glass to keep the entire piece of debris does not fall off, so it is a real sense of safety glass. Film made of transparent PVB laminated glass, its appearance and basic installation is no different from ordinary glass, and durable.

Characteristics of laminated glass:

1. Safety: Installation of laminated glass in buildings subject to any external shocks. Even the glass is broken while the laminated glass will be still maintaining the original integrity of the framework. Person inside and outside the building would not hurt by the flying glass debris.
2. Anti-hurricane and earthquake: Even the glasses are broken while they will remain in situ and not drop to ground.
3. Bullet proof: A multi-Layer sandwich can create multiple levels of bullet-proof, explosion-proof glass.
4. UV: the sun's ultraviolet rays are a great impediment, every UV rate of 99% or more, to avoid ultraviolet radiation.
5. Noise resistance: PVB film hinders the role of sound waves, thus reducing noise.

Application

For the characteristics of laminated glass, it is widely used in building windows and doors, walls, ceiling, elevated floor, furniture, windows, counters, aquariums, large areas of glass curtain wall.

Product Specifications: Maximum size: 3210mm ïÁ 6000mm
Total thickness: 5mm-60mm (curved clamp size depends on bent glass size.)
Quality standard: ASTM C1172 U.S. standards
AS/NZS2208 Australian Standard

Bulletproof glass

Product introduction
Bullet-proof glass is described by the two or more glass (inorganic or organic glass) with a middle layer of PVB film in a certain temperature, glued together under pressure, within range of weapons can stop bullets penetrate the human body and property provide multi-layer protective glass combination, a bullet-proof, explosion-proof, anti-theft feature, yet the characteristics of ordinary laminated glass is widely used in bullet-proof glass: building: the financial system, banks, Museum, jewelry, luxury villas; car: heads of state, dignitaries, rich with bullet-proof vehicles, bank A variety of special armored car.