

SZG 20mm Insulated Glass is produced by best quality float glass, we take the float glass into tempering furnace and heat it well above its transition temperature of 564 °C to around 680 °C, the glass is then rapidly cooled with forced air drafts. Tempered process can make the glass 5 times harder than ordinary float glass. After tempered process, we take one piece of **4mm low e tempered glass** and one piece of clear tempered glass sealed around the edges with an air space between, to form a single unit.

Insulated glass also called IGU glass and double glazing glass, the glass panes are separated by a "spacer", usually it is air spacer and argon spacer. As a warm edge, the spacer separates the two panes of glass in an insulating glass system, SZG use metal and fiber as raw material to produce spacer that make the glass more durability.





Characteristics of Double Glazing Glass

1. Tempered glass is a safety glass, it is more stronger than ordinary glass,if it is broken, the glass will disintegrates into harmless small fragmentswhich are unlikely to cause injury.
2. Low e insulated glass is very good for heat insulation, since it donot allow the inside air to go out or the

outside heat to come in. It acts as a barrier to save energy. Also, in hot summer, the low e coating can reflect the sun back outdoor which keep the room at an appropriate temperature.

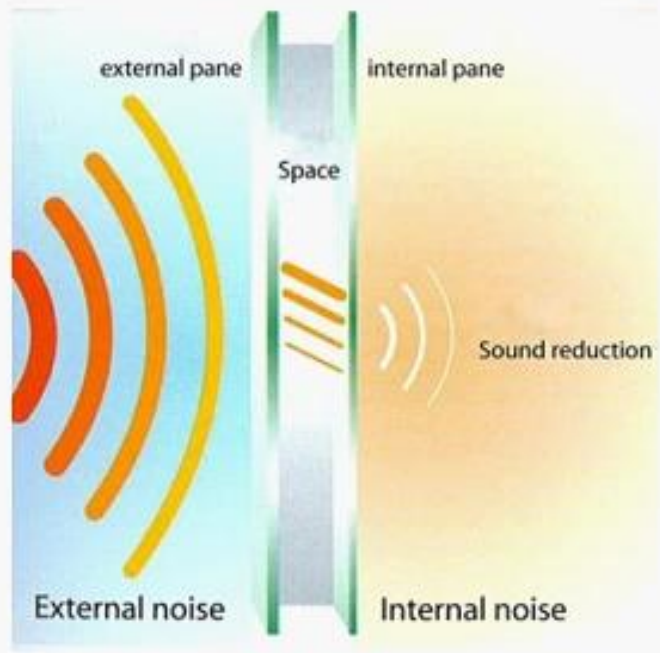
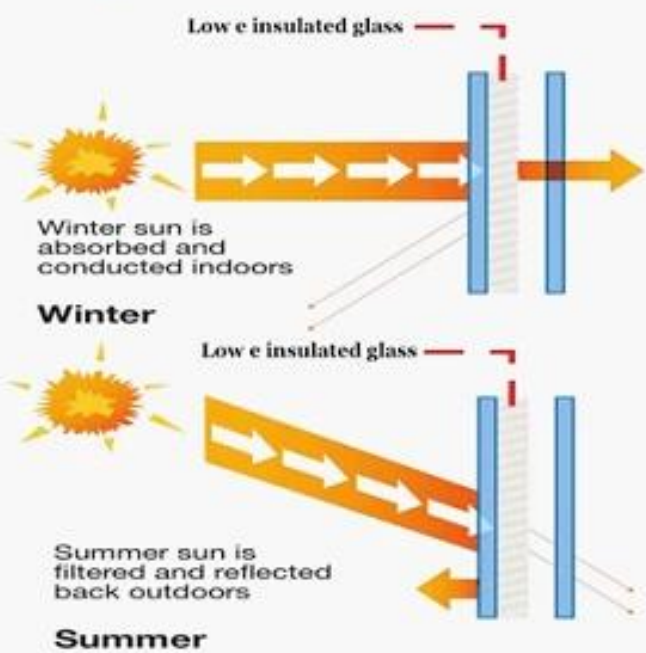
3. [Double glazing glass](#) provide a very good sound insulation in between the interiors and exteriors, it can be used for interior sound insulation needs, such as commercial building partitions and uptown area.

4. Double glazed is much stronger than the single glazed that helps double glazed building more secure, since the double layers of toughened glass is much harder for burglars to break.



Toughened (tempered) glass breaks into many small pieces with less sharp edges.

Ordinary glass breaks apart into large and sharp dangerous pieces.



Low E Insulated Glass Applications

Curtain Wall



Balcony



Window



Office Partition



Insulated Glass Processing

1. Sun Global Glass process by use best quality float glass, each sheet of float glass must be under the LED light to inspection and ensure there are not exist air bubble, crack, scratch and other defects.
2. After inspection, the glass would be cut, and then washing and drying. Washing machine should be worked in optimum capacity and then dry completely.
3. Take the glass into tempering furnace, rapid cooling the glass after high temperature heating, heat treatment must according to CE standard.
4. Sealing glass with structural adhesive, the glass must be sealed twice. Molecular sieves can absorb moisture from the air space, but not exposed to air for more than four hours, otherwise it will absorb moisture in the air and will not work. Therefore the molecular sieves should be run out within four hours.

Material Storage Area



Cutting Process



Edgeworks & Drilling



Tempered Process



Ceramic Frit



Insulated Process



Merging Room



Autoclave



Inspection



Loading



Packing



Packing and Loading

