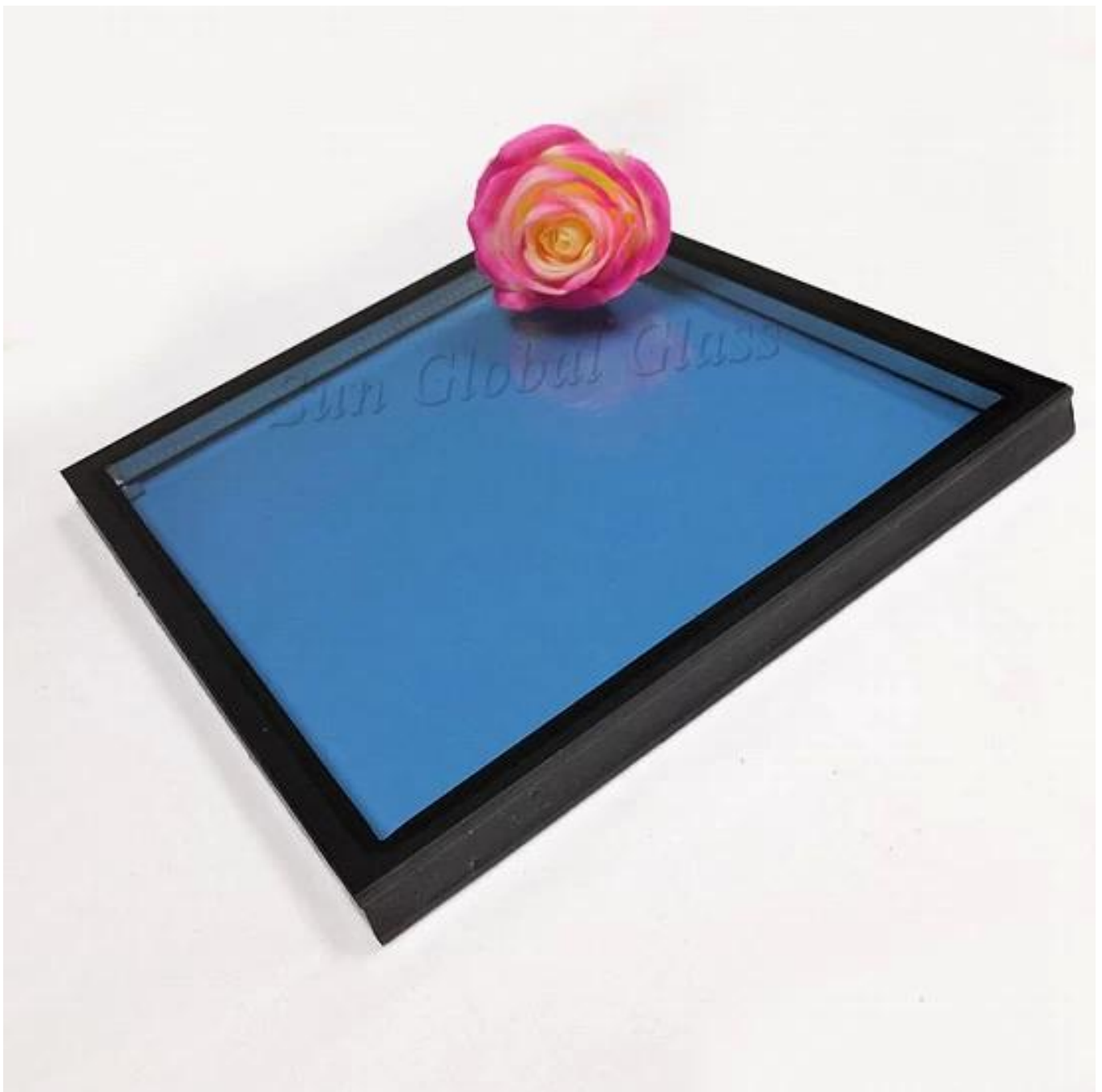


SZG 24mm Ford Blue Insulated Glass is produced by using best quality float glass, the float glass is taken into the tempering furnace and heated well above its transition temperature of 564 °C to around 680 °C, the glass is then rapidly cooled with forced air drafts. The tempered process can make the glass 5 times harder than ordinary float glass. After the tempered process, we take one piece of 6mm low iron tempered glass and one piece of Ford Blue 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 sheets 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 uses metal and fiber as raw material to produce spacers that make the glass more durable.





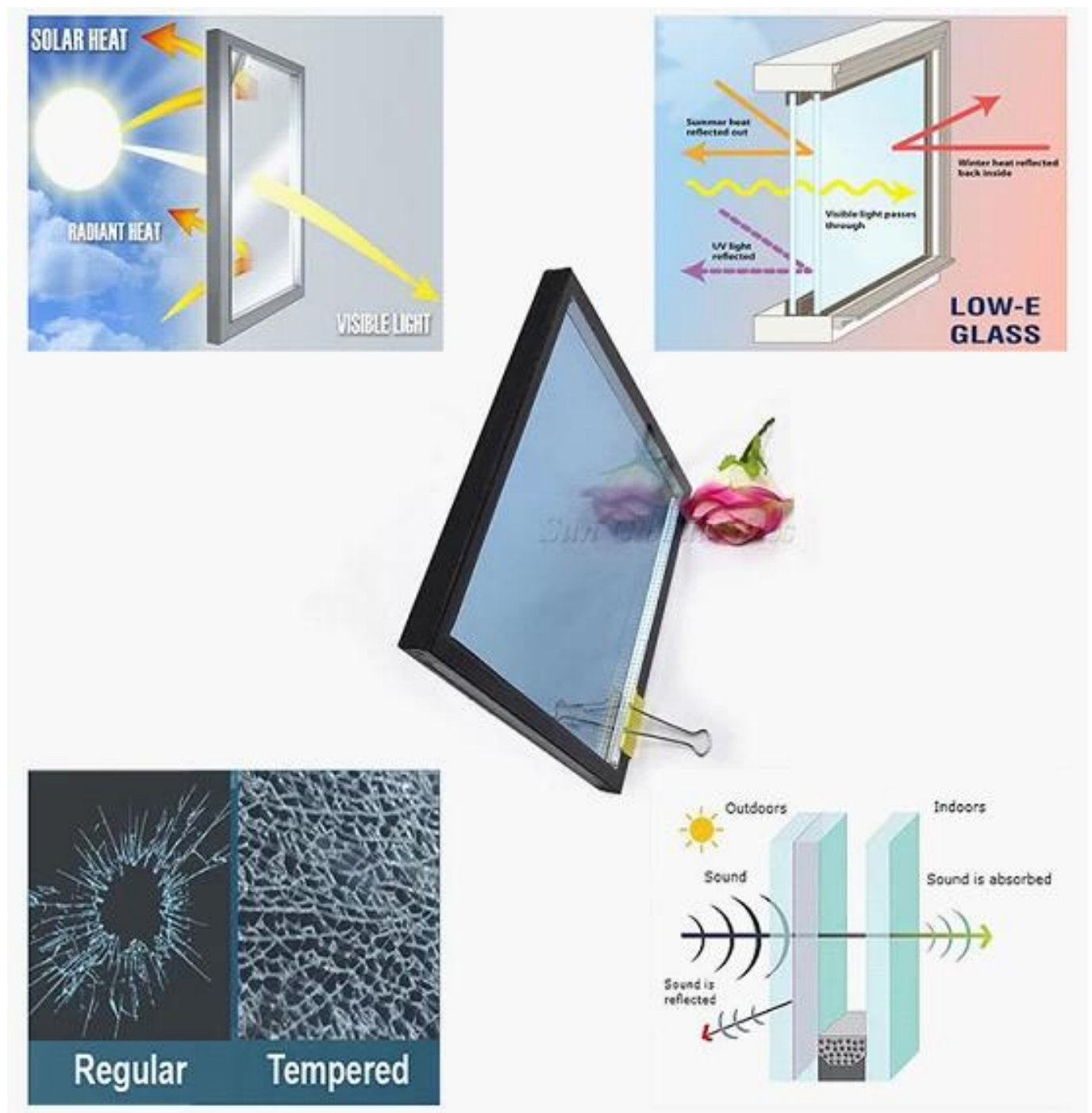
## **Characteristics of Double Glazing Glass**

1. Tempered insulated glass is a safety glass, it is more stronger than ordinary glass, even it is broken, the glass will disintegrates into harmless small fragments which are unlikely to cause injury.

2. Low e insulated glass is very good for heat insulation, it do not allow the inside air to go out or the outside heat to come in. Low E insulated glass acts as a barrier to save energy. Also, in hot summer, the low e coating can reflective the sun back outdoor which keep the room at an appropriate temperature.

3. Double glazing glass also 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.



## Performance Data for SZG Insulated Glass



### SHENZHEN SUN GLOBAL GLASS CO., LIMITED Double silver LOW-E glass thermal parameter sheet

GLASS COMPOSITION	Basic Glass	Color	Visible Light Transmittance	Visible Light Reflectance (outdoor)	Visible Light Reflectance (indoor)	America ASHRAE				China JGJ			Europe CEN	
						U Value (Winter Night)	U Value (Summer Daytime)	shading coefficient (SC)	Solar Heat Gain Coefficient (SHGC)	RHG	U-Value (W/m <sup>2</sup> *k)	shading coefficient (SC)	Total Solar Transmittance (G)	U-Value (W/m <sup>2</sup> *k)
6SZGTN0182+12A+6C	Clear	Neutral	70.00	11.00	12.00	1.65	1.59	0.45	0.39	298.00	1.66	0.49	0.42	1.60
6SZGNE0172+12A+6C	Clear	Grey	65.00	10.00	11.00	1.67	1.61	0.42	0.37	279.00	1.68	0.46	0.39	1.62
6SZGNE0158+12A+6C	Clear	Grey	54.00	15.00	17.00	1.66	1.60	0.35	0.31	236.00	1.67	0.39	0.33	1.61
6SZGTB0170+12A+6C	Clear	Blue	63.00	14.00	16.00	1.64	1.58	0.38	0.33	253.00	1.65	0.42	0.36	1.59
6SZGTB0162+12A+6C	Clear	Blue	57.00	14.00	17.00	1.65	1.59	0.35	0.31	234.00	1.66	0.39	0.33	1.60
6SZGTG0148+12A+6C	Clear	Blue grey	45.00	17.00	18.00	1.65	1.59	0.31	0.27	206.00	1.66	0.34	0.29	1.60
6SZGBG0148+12A+6C	Clear	Silver Grey	42.00	24.00	24.00	1.66	1.61	0.29	0.25	197.00	1.67	0.32	0.27	1.62
6SZGBG0160+12A+6C	Clear	Blue grey	51.00	19.00	11.00	1.67	1.62	0.33	0.29	222.00	1.69	0.37	0.31	1.63
6SZGBG0150+12A+6C	Clear	Silver Grey	43.00	27.00	12.00	1.64	1.59	0.27	0.24	184.00	1.66	0.30	0.26	1.60
6SZGBG0140+12A+6C	Clear	Silver Grey	37.00	28.00	12.00	1.67	1.62	0.25	0.21	168.00	1.68	0.27	0.23	1.63
6SZGNE0168+12A+6C	Clear	Grey	60.00	11.00	11.00	1.64	1.59	0.35	0.30	231.00	1.66	0.38	0.33	1.60

## 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

