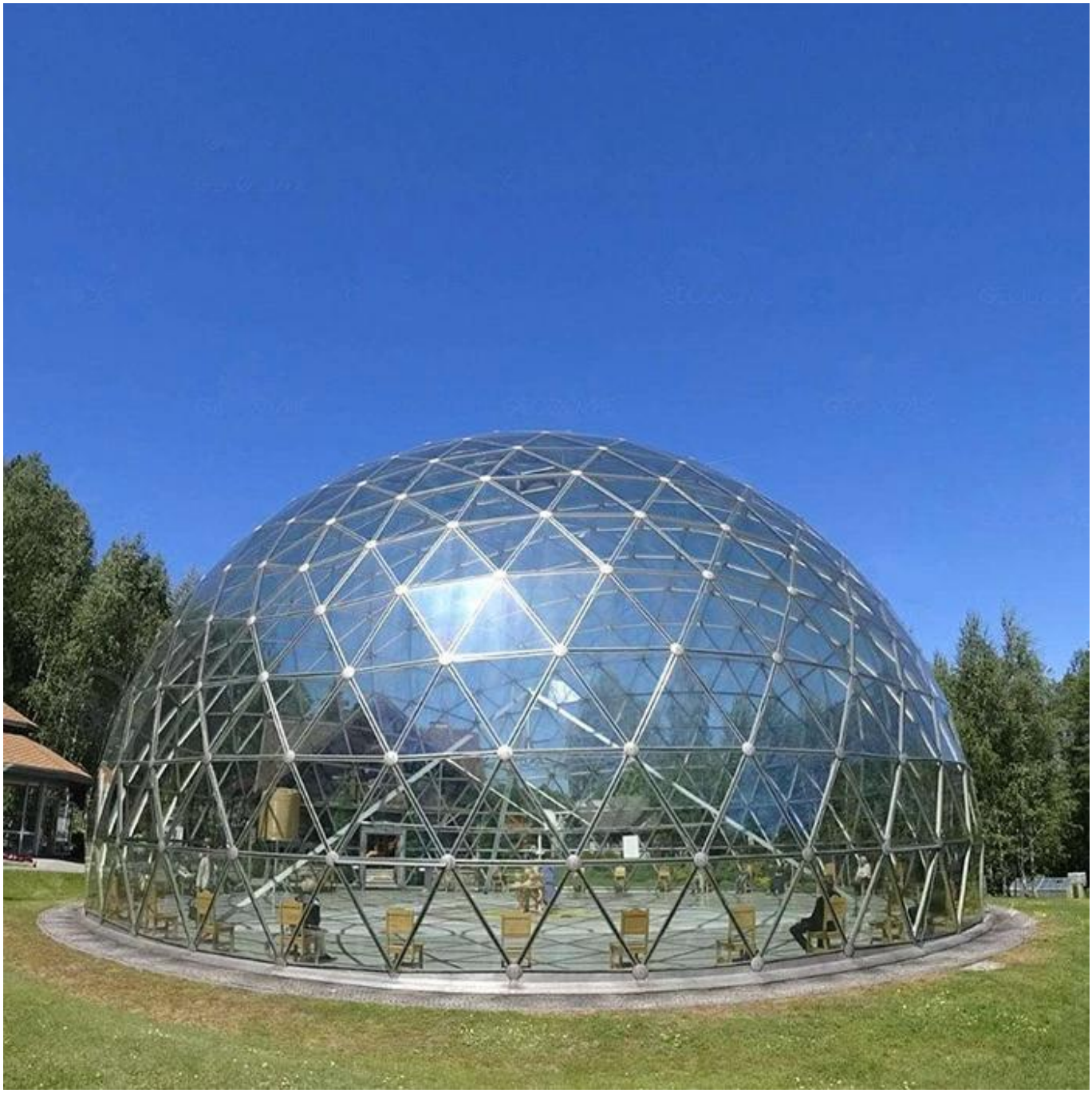
12.28mm tempered SGP laminated glass dome is built by safety SGP laminated glass, the glass is consist of two panes of **5mm clear tempered glass** with one layer of 2.285mm SGP film sandwiched between them. If the glass is broken fragments tend to adhere to the SGP interlayer thereby reducing the risk of injury from falling glass and helping to resist further impact or weather damage. Besides, SGP film has good tenacity performance and can resistant to hurricanes, even when the laminated glass breaks due to violent force, the SGP will absorb a large amount of impact energy and disperse it rapidly. Thus, it's hard to break the SGP laminated glass and the shape of the glass may be maintained even if being broken. Furthermore, personnel inside and outside the glass dome will not be hurt by the glass fragment.



Why Use SGP Laminated Glass For Glass Dome

SGP laminated glass has strong tear strength and hardness.

Sentryglas glass are with hurricane resistance function, can with bigger storms.

SGP interlayer glass improve the performance of bullet-proof glass.

SGP glass products reduce the laminated glass thickness in a certain extent.

Extremely durable and resistant and can keep flawless and transparent after years of exposure.

Different between SGP Laminated Glass and PVB Laminated Glass

PVB is polyvinyl butyral, with features of high transparency, cold resistance, impact resistance, resistance

to ultraviolet radiation etc. PVB is the most widely used laminated material for building glass at present.

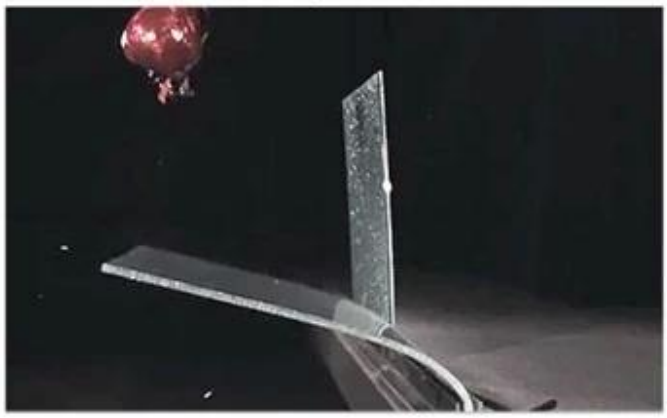
PVB tempered laminated glass is a type of safety glass, has the advantages good sound insulation resistance and ultraviolet radiation, but PVB water resistance is poor.

The full name of SGP is Sentry Glas Plus. It is a high-performance sandwich material developed by DuPont Co. SGP laminated glass has high strength and shear modulus, and the mechanical properties. The bearing capacity of SGP laminated glass is 2 times the carrying capacity of PVB with equal thickness. Meanwhile, under the condition of equal load and equal thickness, the flexural deflection of SGP laminated glass is only 1 / 4 of PVB sandwich glass.

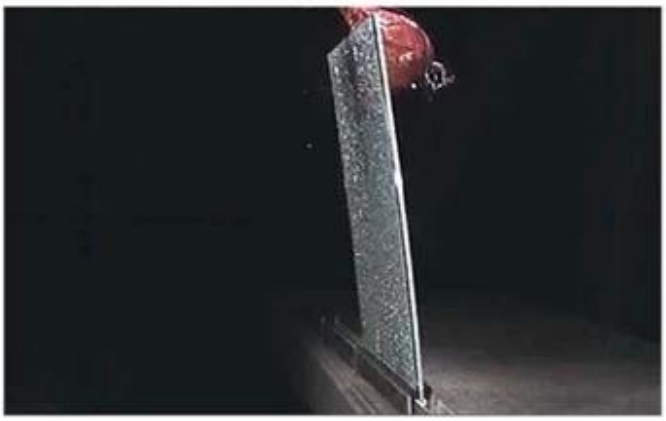
SGP film has good edge stability and is not sensitive to water. SGP laminated film is colorless and transparent, and good weather resistance, not easy to yellow. The yellowing coefficient of SGP film is less than 1.5, while the yellowing coefficient of PVB film is 6~12.

The tear strength of SGP laminated film laminated film is 5 times of PVB, even in case of broken glass, SGP film can also bond broken glass to form a temporary structure after the destruction, the bending deformation is smaller than PVB.

PVB laminated glass impact test



SGP laminated glass impact test



SZG Provide Quality services

1. We are one of the biggest glass factory in China with over 25 year glass production experience, our factory occupies 130000 square meters, owing 5 production lines. Tempered glass daily productivity is 13000m2; laminated glass daily productivity is 8000m2, insulated glass daily productivity is 5000m2 etc.

2. Process by using grade A building glass materials, without any bubble, scratch, spot etc defects.

3. Each step of our processing meet ISO, CE, SGS etc standard.

4. Provide 10 years warranty, any quality problem can refund or replace glass.

5. 100% inspection after production to make sure each sheet of glass are all in good condition.

6. Use high quality newest seaworthy wooden crates to pack.

7. Powerful transportation system and fast shipping time, we have long-term cooperation relationship with MAS, NYK, COSCO etc well-known shipping companies.

8. Professional sales and technical team, provide 24-hour service, meet any specific requirements for glass.

Material Storage Area

Cutting Process

Edgeworks & Drilling

Tempered Process

Ceramic Frit

Insulated Process

Merging Room

Autoclave

Inspection

Packing

Loading

Our Certificates

International standard ISO 9001

Chinese safety glass standard CCC

European standard CE EN14449

American safety glass standard SGCC ANSI Z97