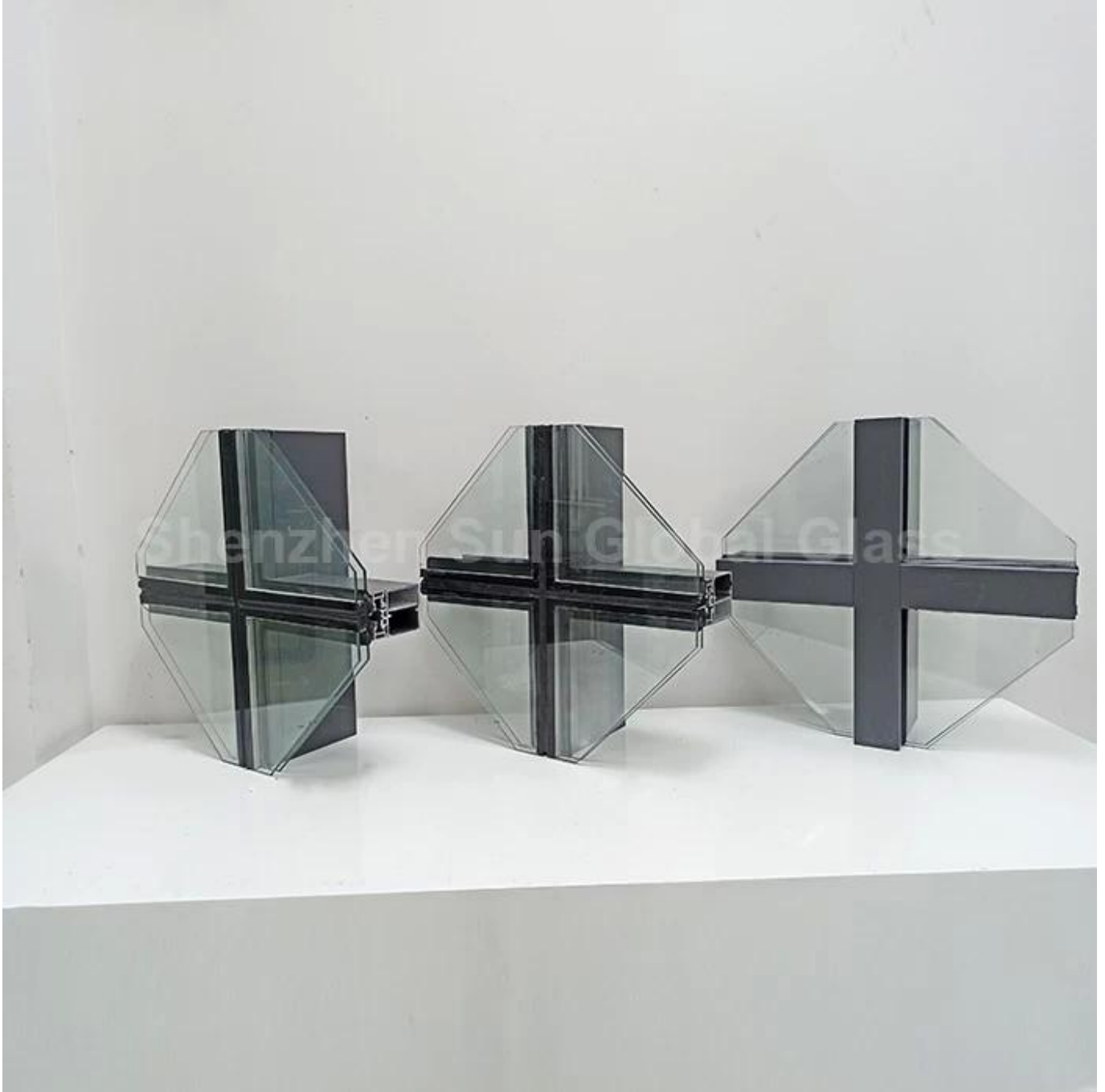


## Double Glazed Curtain Wall System

Glass curtain walls are lightweight aluminum-framed facades housing glass panels. These glazing systems don't support the weight of a roof or floor. Instead, gravity loads and wind resistance transfer from the surface to the building's floor line. Curtain walls are often part of a building envelope or comprises one part of a wall system. Each glazing system requires careful integration with other adjacent structural elements such as wall claddings, roofs, and wall details. Curtain wall systems range from standard prefabricated systems to specialized custom wall units. Increased costs often come with additional customization and larger sizing.

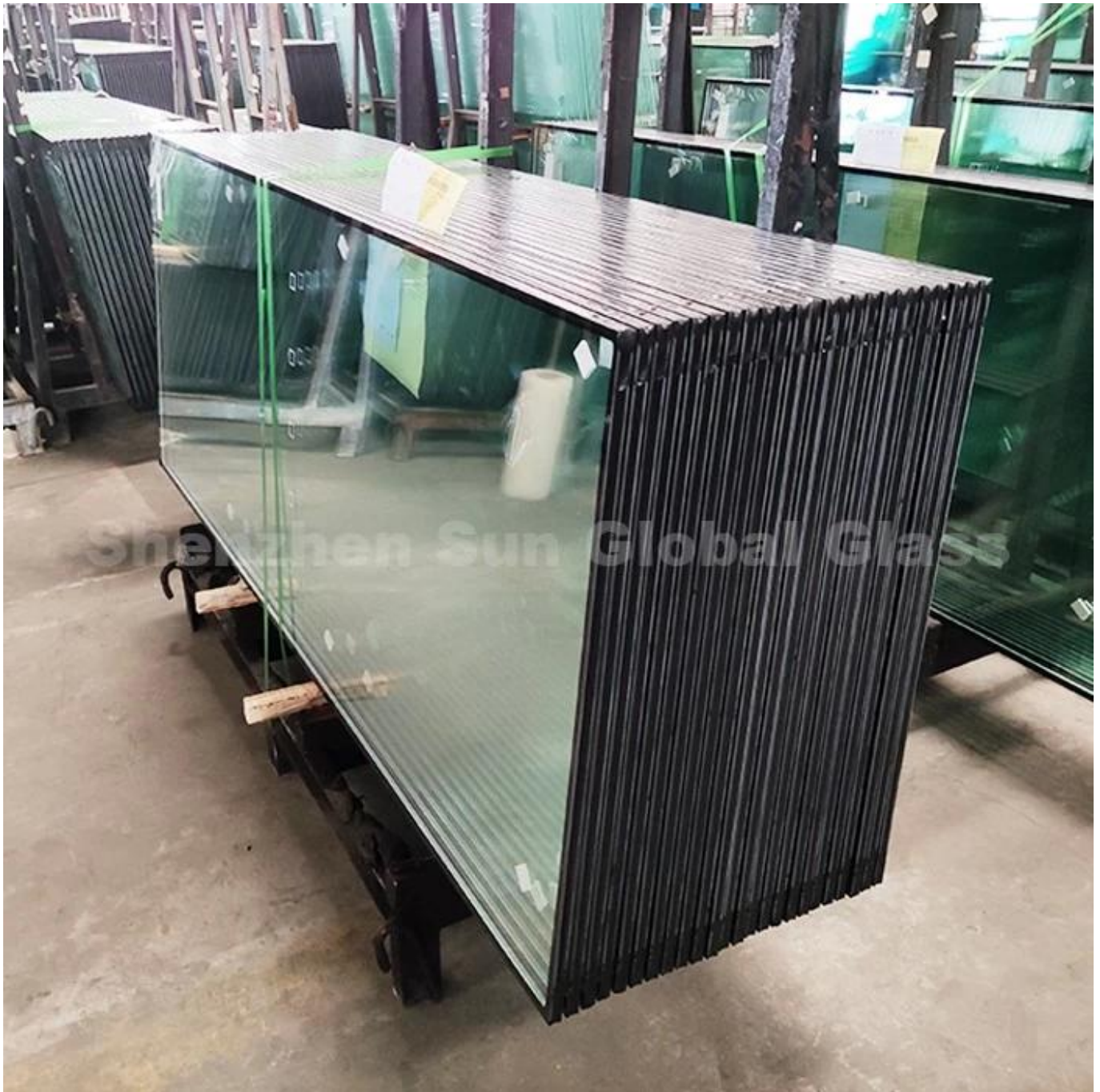




## **Glass for Curtain Wall**

Insulated glass is a contemporary glass having multiple panes separated by an air or noble gas-filled cavity. These are also called double glazing glass and insulated glazing unit (IGU). Double glazing glass having two glass panes separated by an air space and sealed at the edges are most commonly used. The design principle of double-pane glass is to reduce the transfer of heat and aesthetically serve the purpose of building insulation. This significantly helps in the regulation of indoor temperature and serves as a barrier against unwanted heat and noise. Its amazing sound control abilities make it ideal for business building or residential setting.





## **Why Choose Insulated Glass**

### **It's Energy Efficient**

Double glazing glass has natural thermal insulation properties that regulate the indoor temperature and helps in energy conservation. The glass can reduce both the amount of heat coming in and going out from a living space and successfully conserves energy every season of the year. Furthermore, Low-E coating can also be applied to the panes of glass to augment the energy conservation levels.

### **Strong and Secure Interior Option**

The strength and durability of double glazing glass are among its most notable properties and results in achieving higher standards of safety. Insulating glass units are strong, durable and hard to break. Safety and security have always been a major concern with the use of aesthetically-superior glass.

### Helps in Noise Reduction

The presence of air space or gas-filled cavity in between two panes of glass provides better sound insulation. Insulated glass is an ideal window and door material which significantly helps in counteracting noise pollution.

### Make Indoor Environment Cozy and Comfortable

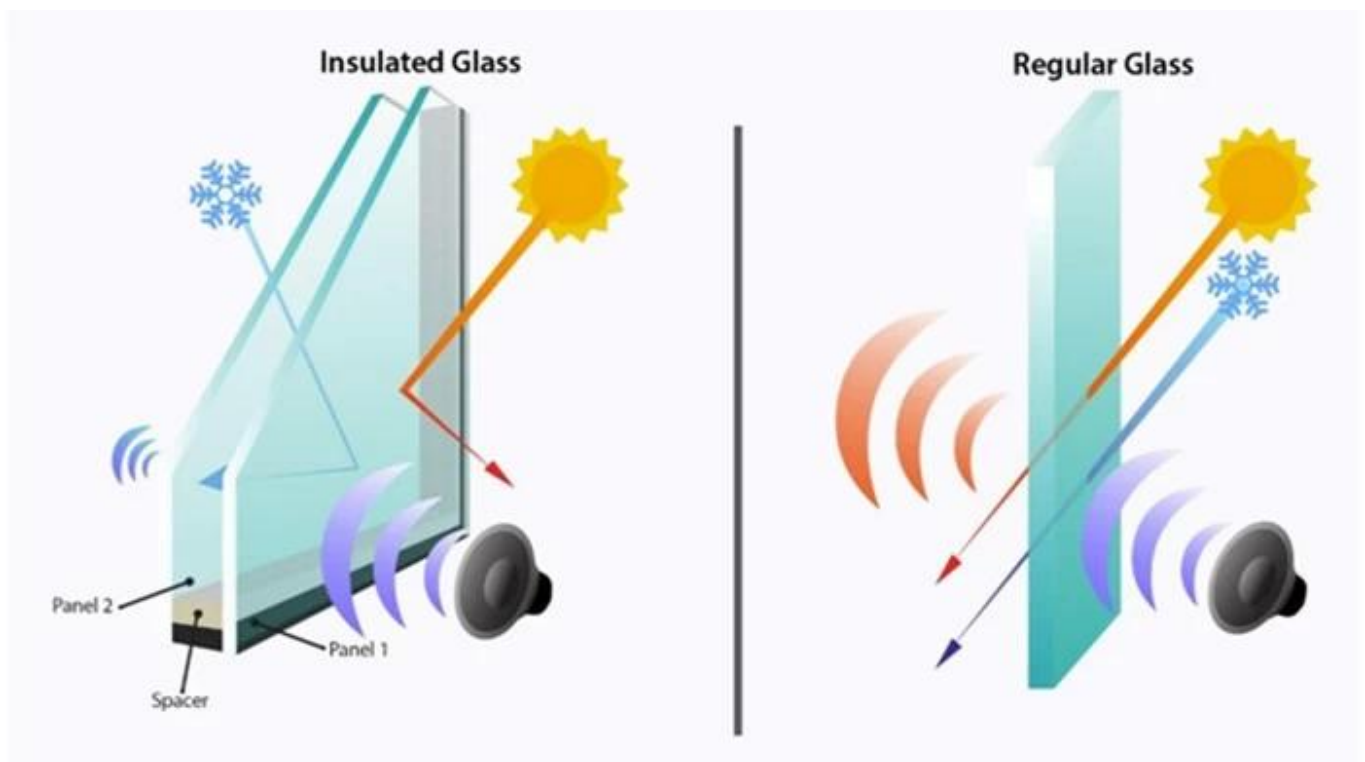
The temperature regulatory characteristic is one of the major advantages of the modern-day insulated glass. The regulation in temperature helps develop a cozy and comfortable indoor environment. Blocking the sun's heat makes the indoor pleasant during the hot days of the summer. Similarly, this glass also helps in making the indoor cozy and comfortable in winter by restricting the outflow of heat.

### Reduced Carbon Footprint

Lowering the carbon footprint benefits the environment and helps in the development of an eco-friendly environment. Lesser use of electronic appliances contributes to the reduction of the overall carbon footprint. Double glazing glass regulates the temperature of the interior space both in summer and winter and results in the minimization of air conditioners and heaters use.

### Long-lasting and Durable

The durability and sturdiness of insulated glass make them the preferred choice of homeowners who want to resolve the frequent replacement issues. The ordinary glass has always failed to maintain high-standards of durability required by homeowners and commercial store owners. The multiple layers of glass separated by a gas-filled cavity make them more durable and able to withstand the tests of time.



## Types of Curtain Wall

### Stick Curtain Wall System:

In this type of curtain wall system, the components are assembled piece by piece on the structure of the building. This system is mainly used for low-rise buildings or in small regions. This is due to the fact that for reaching higher elevations it is important to have exterior access. This system promises flexibility as it gives space for onsite adjustments. Though it has the advantage of low shipping costs, the labor and time

consumption should not be underestimated as tend to run quite high.



**Unitized Curtain Wall System:**

In this type of curtain wall system, the parts are already assembled in the factory. The components are installed and brought as a single unit from the factory to the site. This negates the need for individual installation. The size of the unitized curtain walls is directly proportional to the floor to floor height of the structure. Popular in high-rise buildings, they don't need external supports such as cranes or scaffolding. Only mini cranes or temporary hoist are needed. This system offers the benefits of quick construction and good quality as the components are manufactured in a factory setting. However, this type of curtain wall system tends to increase the shipping charges due to need for larger and better protection during transportation to the site.



**Stainless Steel Spider for Curtain Wall**



## Advantages of curtain wall System

Small wall footprint: Available in additional floor area.

Parallel scheduling: It results in faster installation.

Lighter structure: It results in easier transport and installation.

Improved natural light: It results in a flexible architectural design.

Structural Flexibility: It results in easy structural engineering.

Structural independence: It results in flexible architectural designs.





Welcome to send us inquiry with your detail requirement and question.