



Smart Glass VIP

Privacy PDLC Film Manufacturer

Smart Glass Installation Guidance

Website: www.smartglassvip.com

1. Smart glass arrives at the site

Consider of the way of transport before smart glass arrived at the place of installation: **Stairs Transportation, Elevator transportation.**



Stairs Transport



Elevator Transport

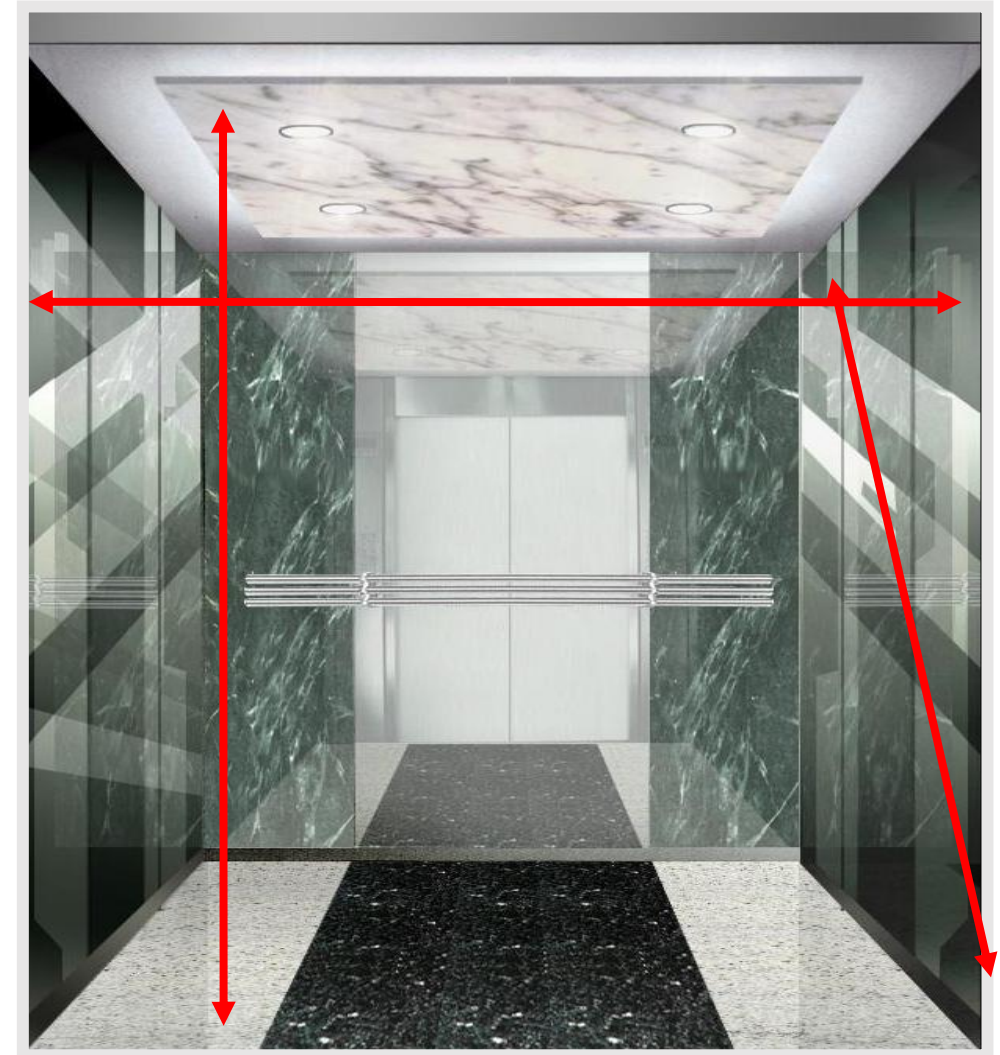
1.1 Stairs Transport

- For the situation on-site. When adopting stairs transportation, measuring the width of stairs in advance to design the way of bending, skills needed when bending due to less flexibility of glass.
- If the floor is high, consider a place to have a rest in advance. The glass is dense and fragile, place it carefully.



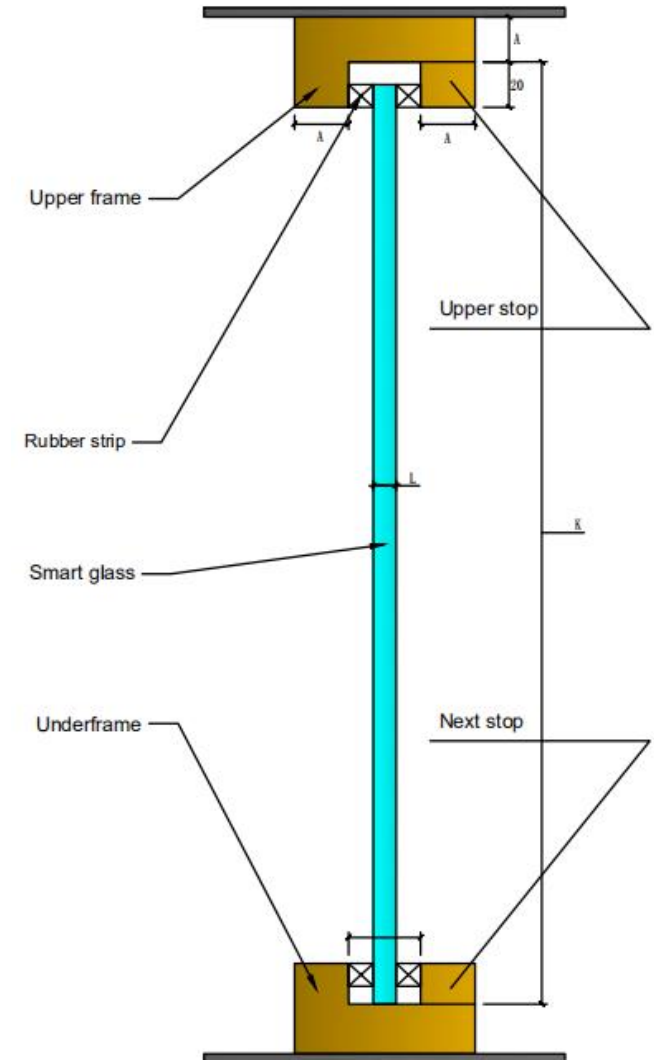
1.1 Elevator transportation

- Measure elevator dimensions in advance, including length, width, height, and diagonals in all directions, and calculate whether smart glass can be transported. Consider how the glass enters and exits and how the glass is parked inside the elevator.
- Coordinate the use time of the elevator with the property in advance, because when installing the smart glass, most of the projects are close to the end of the scene.



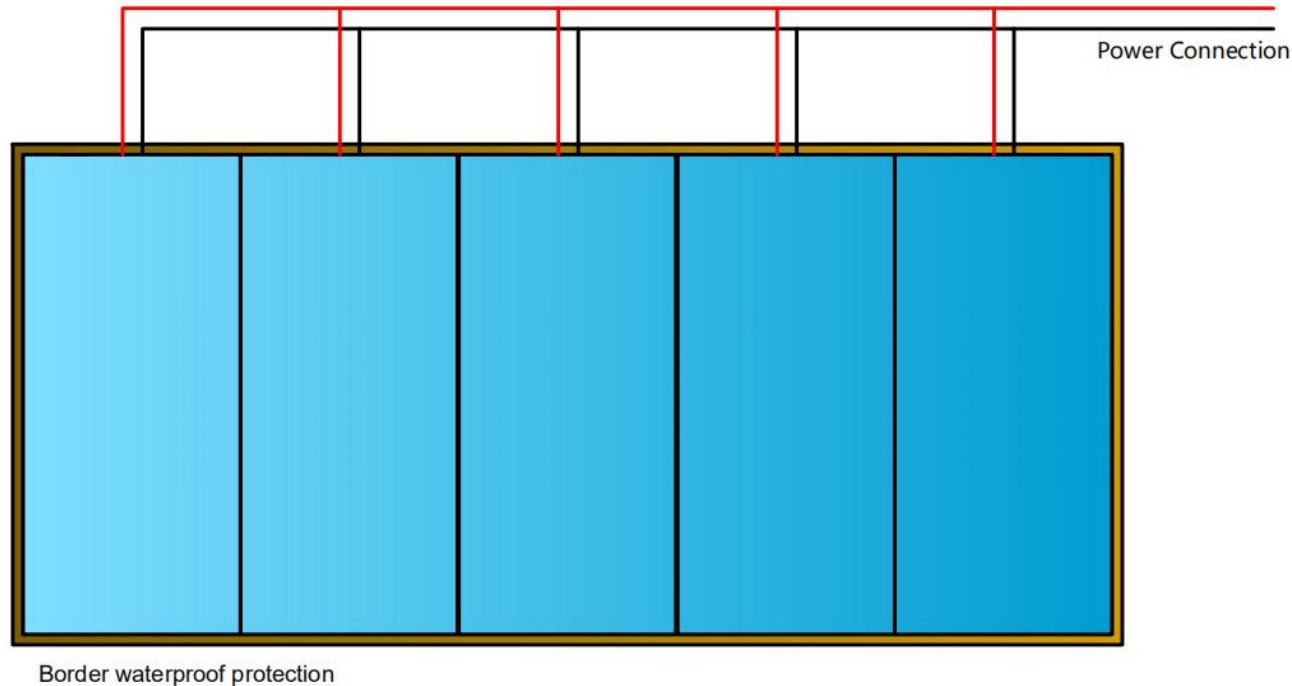
2. Installation (1)

- Place the main frame of glass based on the layout.
- Drill a hole (Which diameter is 15mm to 20mm) at the middle of the frame-side. Leave holds once install many pieces glass, one hole for one piece of glass, and then ensure every single glass is 2cm covered by the frame.
- Place glue on the glass where contacts the inner side of main frame.
- Install the glass one by one; fix the glass to the upper frame before start to install the next one.
- Fix the rest of frame to glass. Seal the edge with glue.



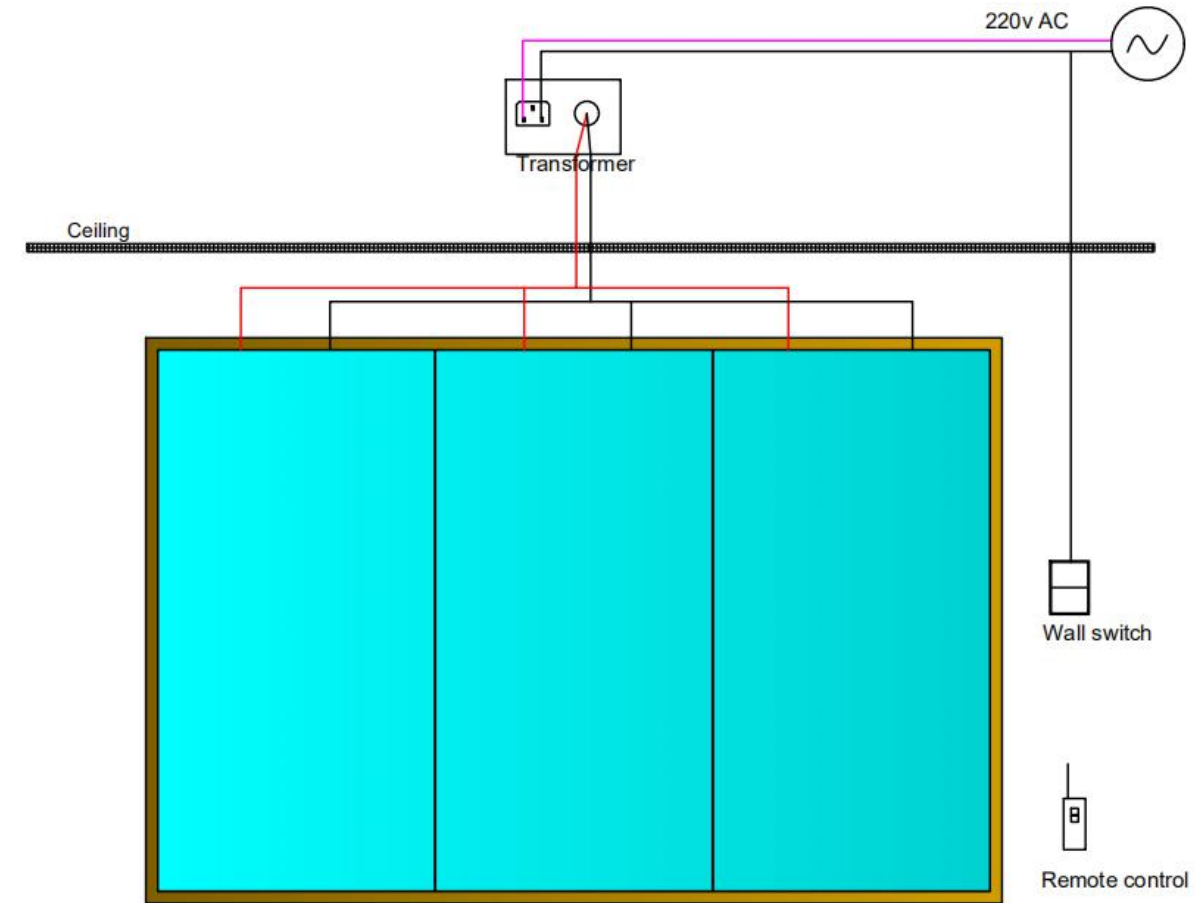
2. Installation (2)

- Install the glass one by one; fix the glass to the upper frame before start to install the next one.
- When install many pieces glass, please adjust the gap (3mm) between each glass.
- Connect each busbar to power-supply box.



3. Smart Glass Wire Connection and Test

- Connect all smart glass to the transformer.
- Fix the gap on 4 sides and seal with neutral glass silicone.
- Install and fix the transformer.
Test each smart glass first and then test all the smart glass together.
- Seal the gap between each glass.
- Decorate the smart glass frame.



- 1: Set aside 3-5mm dimensions between the two glasses for gluing.
2. Punch 20mm on the frame, above the middle of each smart glass.

Smart glass installation diagram

4. Notes

- 1. The smart glass must work with the transformer which are provided by the smart glass supplier, or the transformer which are approved by the smart glass supplier officially. Input voltage should be AC220V. Output voltage should be connect with the smart glass. There are red wires and black wires on each smart glass. We can choose one red and one black wire to connect. The others are spare wires. No need to distinguish positive and negative anodes.。
- 2. Smart glass must keep erect during transportation and move.
- 3. When placing and installing the smart glass, the contact surface under the glass should be larger than 2/5. The contact surface cannot be a hard material such as metal or stone directly. If you need to add a pad, you must use flexible rubber to avoid stress damage.
- 4. The copper foil or transparent tape on the edge of the glass cannot be removed.
- 5. The smart glass cannot be forced orthopedic or squeezed vigorously. This action will cause the liquid crystal layer to burst and delaminate.
- 6. If the frame of the smart glass is easily deformed, it is not suitable to use glass silicone, and rubber strips or flannel should be used for fixing.