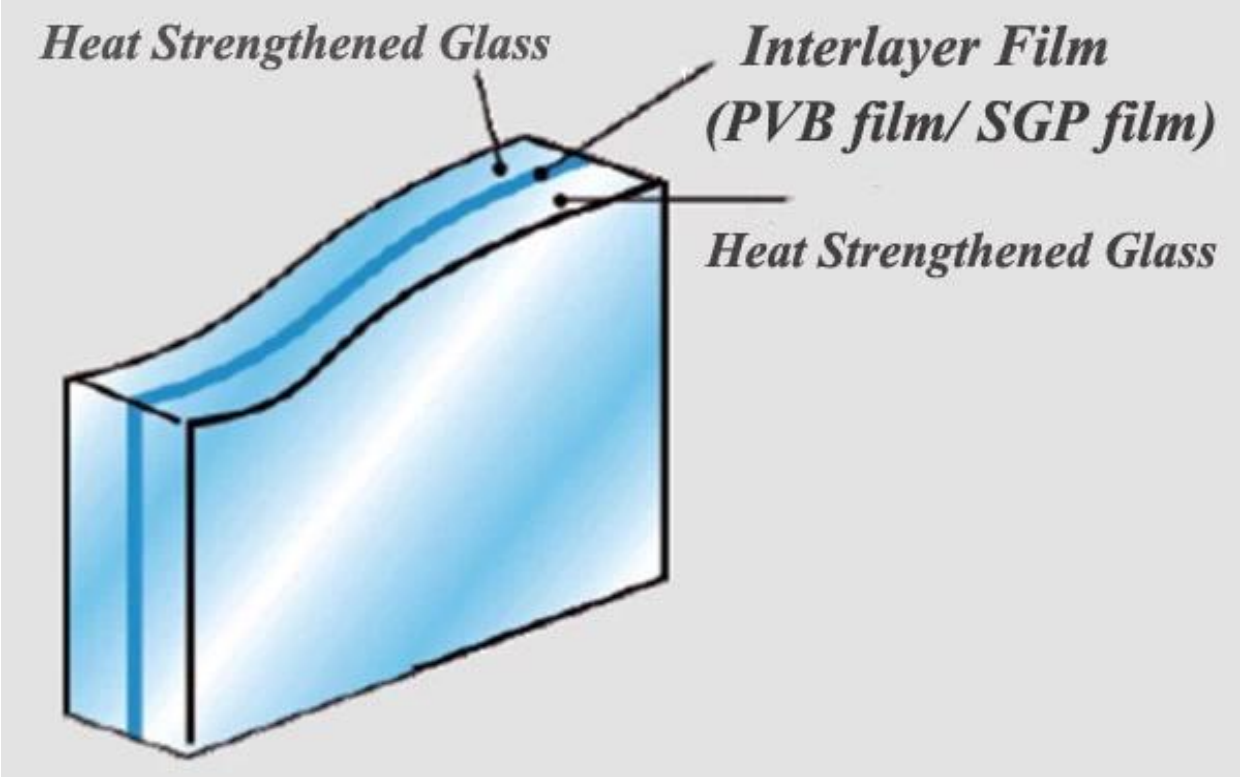
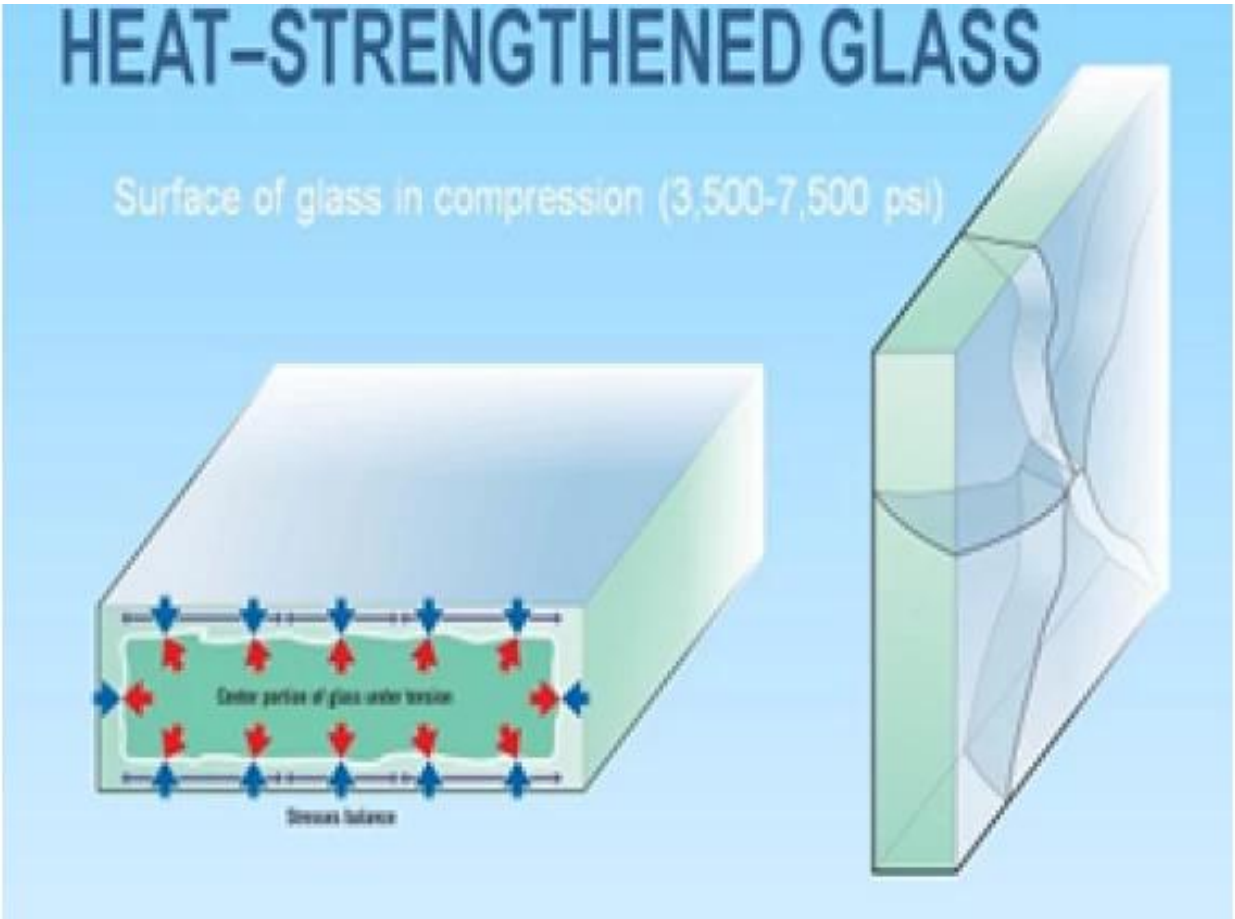
China Supplier 5.5.4 Half Tempered Glass Laminated Factory



5.5.4 Heat Strengthened Laminated Glass is made of 2pcsx **5mm half tempered glass**, they are bonded together by PVB film or SGP film, and finished by heat and high press. Hence they could be 11.52mm SGP Heat Strengthened Laminated Glass or 11.52mm PVB film Half Tempered Laminated Glass. The normal applications are exterior building glass curtain walls, glass building envelopes, glass roofs, glass skylights, safety glass partitions and glass walls, etc.

As we known that Heat Strengthened Glass also referred as heat strengthen glass (HS glass)/ half tempered glass.

The production process is similar to full tempered glass (tempered glass), both of them are produced in tempered furnace. As a particular one kind of heat treatment glass--heat strengthen glass, its cooling is done at a very lower pace, that means the compression strength on half tempered glass' surfaces is lower. As a consequence, heat strength glass is approx. Twice or three times stronger than annealed glass (float glass).



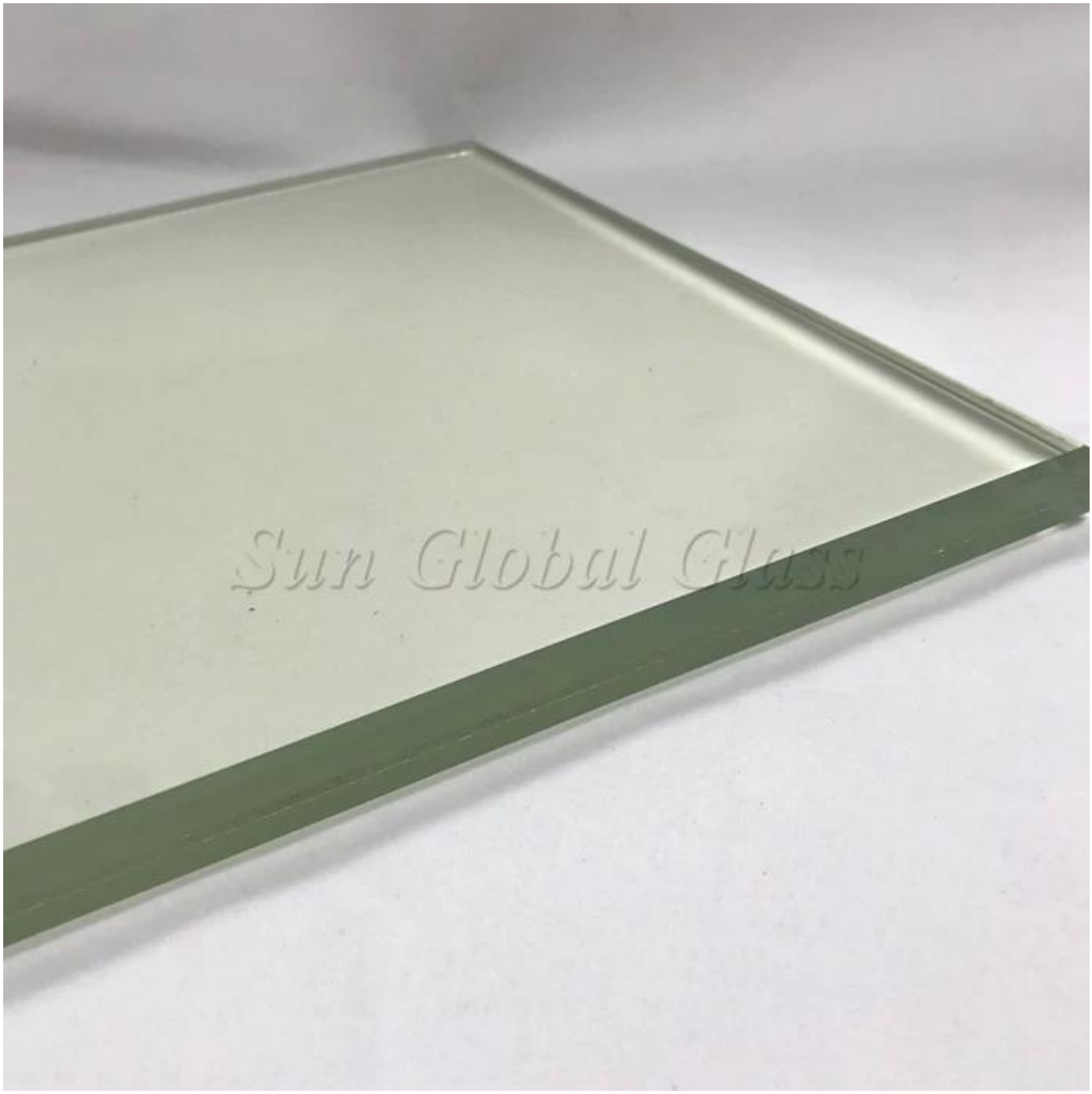
Why choose half tempered glass as glass substrate for Laminated Glass?

1.Heat Strengthened Glass has greater thermal resistance or wind loads than 5mm float glass. When it is broken, the fragments are larger than those of full tempered glass, but not sharp.

2.Half tempered glass doesn't exist spontaneous breakage, but full tempered glass has this problem. Hence 5mm HS glass is also very suitable for the production of Laminated Glass or **Double Glazed Glass Units**, can be applied on some places where additional strength is necessary to withstand wind load and thermal stress, for example: glass facade, glass fin, glass spandral, etc.

3. For **tempered glass**, the air-quench temperature through fans, that will cause optical distort on the tempered glass surface, this problem will be aggravated for Low E tempered glass or reflective glass. But heat-strengthened glass have less option distort, which gains the benefit from the very slower cooling phase (natural cooling phase).

P.S.: HS glass can't be cut or drilled after heat strengthening, and any alternations on glass rims or surfaces can cause the compression stress uneven, lead to breakage.



The glass substrate of 5mm half tempered glass can be all kinds of bespoke cutting sizes and shapes 5mm annealed glass, such as:

- 5mm clear float glass,
- 5mm ultra clear glass,
- 5mm reflective glass,
- 5mm tinted glass,
- and 5mm low E glass.

Advantage about Shenzhen Sun Global Glass Co., Limited:

1.Competitive price with high quality

2.Fast response and fast production time

3.Our glass products can meet quality standard as below:

1)HEAT SOAKED TEMPERED SAFETY GLASS CAN MEET EUROPEAN STANDARDS E3N14179
2) ALL SZG GLASS SHOWER DOORS/GLASS SHOWER ENCLOSURES ARE ACCORD WITH EN14428 QUALITY STANDARD
3) ALL SZG INSULATED GLASS ARE ACCORD WITH EN1279 QUALITY STANDARD
4) All SZG LAMINATED GLASS ARE ACCORD WITH EN14449 QUALITY STANDARD
5) ALL SZG FLOAT GLASS ARE PRODUCED UNDER THE STANDARD OF EN572
6) ALL SZG FLOAT GLASS ARE PRODUCED UNDER THE STANDARD OF EN572

4.We have abundant experiences to work with building contractors, construction companies, building designers, etc., all over the world and contribute superb quality building glass for many famous Projects and Landmarks.

- North American market: USA, Canada, Mexico, etc.
- South American market: Chile, Colombia, Uruguay, Ecuador, Bolivia, etc.
- European market: UK, Poland, Norway, Italy, France, Germany etc.
- Middle East market: Saudi Arabia, UAE, Iran, etc.
- Asia market: Vietnam, Philippines, Sri Lanka, Bangalesh etc

China Resources Mall
Low E Insulated Glass Roofing
17.52mm High Transparent Low E laminated Glass+20A+ 17.52mm Low Iron Tempered Laminated Glass, Irregular shapes, 8000m2

Poland-PKP Gliwice Train Station
Skylight project
8+8 clear tempered laminated glass, 10000m2

Lerato Towers
6mm clear tempered glass, 12mm clear tempered glass etc. 30000m2

Avida Towers Altura
6mm clear tempered glass+12A+6mm euo grey tempered glass etc. 20000m2

Platinum Towers
8mm crystal gray tempered glass etc. 40000m2

Eastfield
8+12a+8 low e insulated glass for Eastfield project. 32000m2