

## **China building glass manufacturer produces customized size sandwich glass 4mm heat strengthened glass+0.89 DuPont Sentry Film+4 half tempered glass**

4MM+4MM SGP half tempered laminated glass are made by two layers of [4mm heat strengthened glass](#) and 0.89mm thickness DuPont Sentry film, which guarantee the safety function of laminated glass. Compare to PVB/EVA film laminated glass, SGP laminated glass are with higher strength, higher clarity, more durability, more versatile construction and flexible installation make it easy to adapt to the latest and most stringent requirements of today's construction market.

Most important is that SGP laminated glass can improve the performance of hurricane proof and bullet-proof glass and can reduce the self weight of laminated glass in a certain extent.

### **Specification:**

- 1.Glass Substrate Options: ultra clear float glass, clear glass, tinted glass, reflective glass, silkscreen glass, Low-E glass, Frosted glass, etc.
- 2.SGP Sentry film thickness: 0.89mm /1.52mm /2.28mm
- 3.SGP brand: Du Pont or Saflex SOLUTIA
- 4.Max length: 6000mm, can be bespoke
- 5.Max width: 2500mm, can be customized
- 6.Both flat laminated glass and curved laminated glass are available

### **Technical Data of PVB and SGP:**

Material Performance	SGP	PVB
Tensile Strength MPA	34.5	28.1
Tear Strength MJ/m3	50	10-15
Fracture Expansion Rate	400%	275%
Haze Degree	<<2%	<2%
Yellow Index	<1.5	6-12
Index of Refraction	1.5	1.47~1.5
Transmittance 6mm Clear+1.52mm+6mm Clear	89%	89%
UV Resistance Rate 3mm Clear+0.38mm+6mm Clear	99.9%	99.9%
Ignition Point	470℃	410℃
Flame Spread Index	30	60
Combustion Smoke Index	215	350

#### **4MM half tempered float glass+0.89 SGP sentry film+4MM half tempered float glass Advantages:**

1. 4MM heat-strengthened clear glass is approximately twice as strong as [4MM clear float glass](#), 4MM tinted glass, 4mm reflective glass or other untreated glass.
2. Heat strength glass don't exist spontaneous explosion, it is a typically specific glass when additional strength is needed to resist wind pressure, thermal stress.
3. When 4mm half tempered glass is working with SGP film together, that can realize a good safety performance, save a big cost of heat soaked test.
4. SGP sentry laminated glass improve the performance of bullet-proof glass.
5. SGP sentry laminated glass reduce the laminated glass thickness in a certain extent.
6. Extremely durable and resistant and can keep flawless and transparent after years of exposure.

#### **SGP application:**

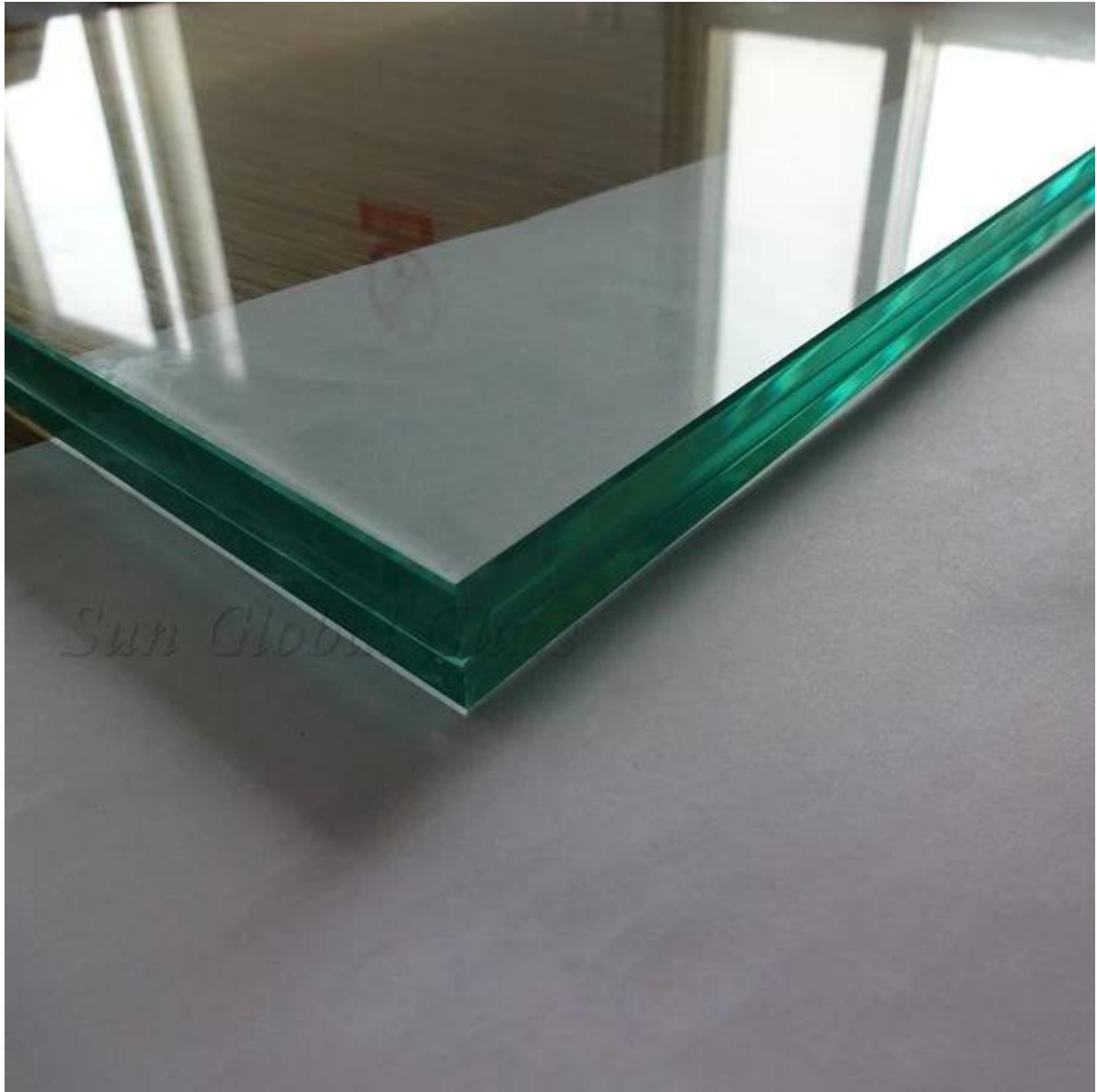
As [SGP laminated glass](#) has good transparency, safety and it can withstand stronger wind pressure, thermal stress, and hurricane attack and so on. It has been widely used in various industries. With safety, beauty and unique combination of further demand, SGP laminated glass applications will be more extensive.

1. In places that needs to consider personal safety.
2. Places with function of bulletproof, anti-theft, explosion-proof, hurricane proof.
3. Glass floor, glass corridor.
4. High-rise buildings, large public buildings safety glass.
5. Large size architectural glass.

**Quality Certificates:**

1. 4mm+4mm SGP half tempered laminated glass meet Chinese standard ISO9001 and CCC
2. 4mm+ 4mm SGP half tempered laminated glass meet Europe standard EN12543, E12510
3. 4mm+4mm SGP half tempered laminated glass meet British standard BS6206

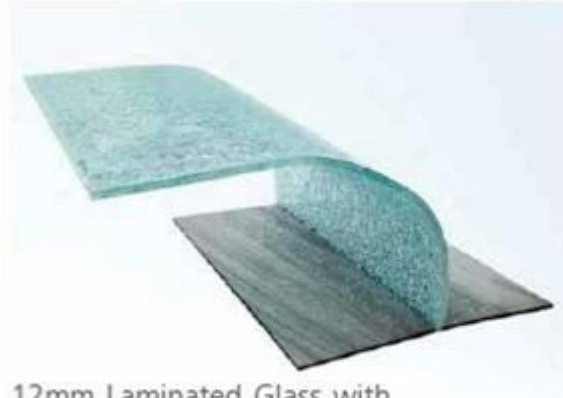
**Picture details of 4mm+4mm SGP sentry film Non full tempered laminated glass:**



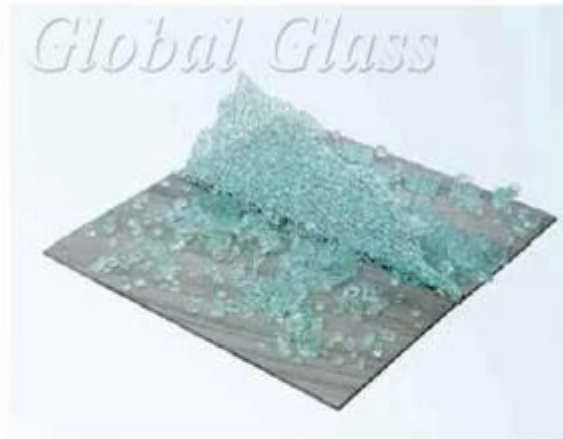
**Breakage of PVB Laminated Glass & Toughened Glass & SGP Laminated Glass:**



12mm Laminated Glass with  
SGP Interlayer



12mm Laminated Glass with  
PVB Interlayer



12mm Tempered Glass

### **Production Line:**







**Package:**



