



NATIONAL GLASS
DISTRIBUTION

The difference between SGP & PVB

The SGP Interlayer

SGP is an abbreviation for Sentry Glass Plus Interlayer, created by American brand Dupont. On June the 1st 2014, Kuraray Co, Ltd. became the exclusive licensee for the technology and trademark of SentryGlas®.

The SGP interlayer is an important factor in ensuring that toughened laminated glass is the best that it can be. It doesn't just make it tougher and stronger, it makes the glass blast resistant – but without compromising on the appearance.

The DuPont Sentry Glass Plus (SGP) is composed of a tough plastic interlayer composite that is laminated between the two layers of tempered glass.

It extends the performance of laminated glass beyond current technologies as the interlayer offers 5 times the tear strength and 100 times the rigidity of the more conventional PVB interlayer.

What makes the SGP interlayer so special?

- Greater security from threats such as severe weather
- Can withstand bomb blast performance requirements
- Greater durability in elevated temperatures
- Fragment retention

SGP vs Normal PVB

The main difference between SGP and normal PVB is that SGP glass will remain intact when both sides are damaged as opposed to PVB glass which will collapse when both sides are damaged or broken. This is because SGP laminated glass is 5 times stronger and up to 100 times stiffer than PVB laminated glass. This is why industry professionals prefer to specify SGP laminated glass for structural applications such as; swimming pool glass panels, horizontal glazing or TSG Laminated Balustrades. SGP also has a yellow index of less than 1.5, while PVB has a yellow index between 6 - 12. This means that SGP laminated glass has greater clarity than normal PVB laminated glass.

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