

CORE

SentryGlas® Laminated Safety Glass SSG® DuraSafe-SGP



Marina Bay Sands, Singapore

SSG® DuraSafe-SGP is SSG® DuraSafe using SentryGlas® (SG) as the interlayer. In contrast with other interlayers, SG allows the development of a new line of laminated glass products because the interlayer is a hundred times stiffer and five times stronger than PVB. It outshines traditional interlayers by having superior edge stability, allowing for frameless edges without worries over delamination. It also exhibits higher optical clarity, safety, security, ease of maintenance, and outstanding post-breakage performance. SSG® DuraSafe-SGP has been proven to have an exceptional adhesion to glass and metal through a 84-months weathering test, with no defects

spotted. Hence it can be used to lessen metal structures and fittings for structural glass assemblies and to allow the use of thinner glass. It does not possess a yellowish look present in some interlayers and hence is often used with low iron and coloured glass.

USES AND APPLICATIONS

- Canopies • Ceilings • Control centres & sensitive research centres • Façades • Glass floors
- Glass roofs • Residences • Side panels & partitions • Sky lights
- Staircases • Overhead glazing
- Underfoot glazing

PRODUCT FEATURES

OPTICAL CLARITY

SSG® DuraSafe-SGP exhibits higher clarity compared to laminated glass using other interlayers. It does not possess a yellowish look present in some interlayers. This is very important with low iron and coloured glass.

MECHANICAL STRENGTH

SSG® DuraSafe-SGP is five times stronger than traditional laminated glass. This reduces the structural support needed in its use, and in turn leads to cost savings.

HIGH-EDGE STABILITY

SSG® DuraSafe-SGP can be left exposed to the environment without detrimental effect. This has been proven through a weathering test with the exposed edge.

LIGHTER LOAD FOR BUILDINGS

SentryGlas® has an exceptional adhesion to glass and metal, allowing SSG® DuraSafe-SGP to lessen metal structures and fittings for structural glass assemblies.

SAFETY

SentryGlas® is a hundred times stiffer than the traditional interlayer. As such, it exhibits excellent post-breakage behaviour by holding the glass in place when broken, reducing the risk of fallout and injury.

Summary of SSG® DuraSafe and SSG® DuraSafe-SGP production sizes

		SSG® DuraSafe		SSG® DuraSafe-SGP	
		EVA	PVB	SGP	
	Interlayer Thickness (mm)	0.40, 0.80	0.38, 0.76, 1.14, 1.52	1.60	0.76, 0.89, 1.52, 2.28
Annealed	Minimum Size (W/mm x H/mm)	300 x 300	300 x 300	300 x 300	300 x 300
	Maximum Size (W/mm x H/mm)	2,200 x 6,100	2,500 x 6,100	1,830 x 6,100	2,500 x 6,100
Heat-Treated	Minimum Size (W/mm x H/mm)	300 x 300	300 x 300	300 x 300	300 x 300
	Maximum Size (W/mm x H/mm)	2,200 x 5,700	2,500 x 5,700	1,830 x 5,700	2,500 x 5,700
Appearance	Clear	✓	✓	×	✓
	Translucent Colour	✓	✓	✓	✓
	Opaque Colour	×	✓	×	×
Glass Thickness (mm)		6.38 to 80			