

CORE

Laminated Safety Glass **SSG® DuraSafe**



SSG® DuraSafe is a range of laminated safety glass formed by two or more pieces of glass bonded together by a tough, durable interlayer under heat and pressure. When broken by impact, the glass will adhere to the interlayer and stay in the frame hence minimising the risk of injury from sharp edges and strongly resisting penetration by the impacting objects or person. As such, it is classified as a safety glass. With the interlayer acting as an additional barrier, SSG® DuraSafe also provides superior sound attenuation and is used in acoustic glazing.

Specialised interlayers available are Polyvinyl Butyral (PVB), Ethylene vinyl acetate (EVA) or SentryGlas® (SG). The standard range of PVB colours in the Vanceva colour system allows the creation of more than 1,000 different tints from a palette of 9 basic colours and 2 translucent white interlayers befitting to your design requirements.

When combined in multiple layers, laminated glass develops as an excellent security counterpart as it can become burglar-resistant or

bullet-resistant. For significant improvement in thermal and acoustic performance, SSG® DuraSafe can also be combined with an insulating glass unit for a 3-ply glazing unit.

SSG® DuraSafe is certified to AS/NZS (Australian Standard / New Zealand Standard) 2208 and AS/NZS 2080 standards.

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

APPLICABILITY

SSG® DuraSafe laminated glass can be formed using a range of monolithic glass in our Design range such as Ceramic Frit glass (SSG® DuraScreen), Digital Print glass (SSG® DuraScreen-DigitalPrint) and SSG® Low Iron Glass. It is also available as laminated tempered glass using SSG® DuraGlas-T.

Other custom combinations are also available upon request.

PRODUCT FEATURES

SAFETY

SSG® DuraSafe adheres to the interlayer when broken, hence reducing the risk of dangerous glass shards injuring people or damaging properties. In horizontal or sloped applications, SSG® DuraSafe prevents glass from falling out.

SECURITY

SSG® DuraSafe tends to resist impact. In multi-ply configurations, it can even resist bullets, heavy objects, or small explosions.

ACOUSTIC BARRIER

The dampening performance of the interlayer gives SSG® DuraSafe its sound-proofing properties and is thus used in acoustic glazing. It helps to absorb unwanted noise from traffic, aeroplanes, lawnmowers, and power tools outside for peace and tranquillity.

ULTRAVIOLET SCREENING

SSG® DuraSafe screens out over 99% of the damaging UV rays (wavelengths 380nm and below), protecting interior furnishings, displays or merchandise from discoloration. However, it still allows for the transmittance of visible light that is required for photosynthesis in plants.

DISASTER PROTECTION

SSG® DuraSafe can serve as a deterrent to injury and property damage during hurricanes, earthquakes or small explosions. The glass tends to remain in the frame following impact, helping to protect the interior of a building.