



# Safety Glass

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The term 'Safety glass' is applied to glazing used to reduce the risk of injury from an accidental impact and consequential glass breakage. Safety glass is used extensively in both domestic and commercial buildings, to the requirements of the Building Codes and is defined by Australian Standards. Viridian offers the following types of safety glass:

- **VLam™** – Laminated safety glass
- **VTough™** – Toughened safety glass
- **VLam™ Toughened** – Toughened laminated safety glass
- **DécorMirror Safe™** – Safety mirror

Critical locations where safety glass must be considered are outlined in Australian Standard AS1288 and New Zealand Standard NZS4223:

- Doors and sidelights
- Glass capable of being mistaken for an opening, and glazing within 500mm of the floor
- Shower and bath enclosures including bathroom windows
- Shopfronts and internal partitions
- Balustrades and stairwells
- Schools and childcare buildings where glass is within 1000mm of the floor
- Special activity buildings, such as gyms and swimming pools

## Australian Standard AS1288 or New Zealand Standard NZS4223 and AS/NZS2208

These standards recognise Grade A safety glass. Laminated, toughened, and toughened laminate glass are all rated Grade A manufactured to AS/NZS2208, offering a high level of protection against injury. Laminated glass also offers security and noise control benefits. Australian Standard AS1288 or New Zealand Standard NZS4223 and the respective Building Codes identify minimum areas where safety glass must be used.

Viridian will only warrant **VLam™**, **VTough™** or **DécorMirror Safe™** as Grade A safety glasses when processed and supplied by a Viridian manufacturing facility.



✓ **VTough™ toughened Grade A safety glass is up to five times stronger than annealed glass.**

### Product Details:

- **VLam™** laminated Grade A safety glass helps to protect from injury caused by sharp splinters of broken glass. If broken, laminated glass sticks to the interlayer and generally stays in the window frame to provide added safety.
- **VTough™** toughened Grade A safety glass is up to five times stronger than annealed glass. On impact, it breaks into small blunt-edged pieces, reducing the risk of injury.
- **VLam™ Toughened** Grade A safety glass is the optimum in safety glass. Each piece of glass is toughened to provide superior structural strength when compared to annealed

glass and then these pieces are bonded together using a PVB interlayer to ensure if the glass breaks the pieces are held together by the interlayer.

- **DécorMirror Safe™** safety mirror glass is a high specification mirror with a special safety backing film to retain broken pieces of mirror if broken from impact.