

LAMINATED GLASS



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A versatile safety glass product that can meet most building and architectural glazing requirements, laminated glass is a Grade 'A' Safety product made by laminating two or more panels of glass with a flexible plastic interlayer or PVB (polyvinyl butyral). The glass and interlayer are bonded together by heat and pressure in an autoclave. Many different laminated glass 'make-ups' are possible combining a large range of glass and interlayer types that can satisfy energy, acoustics, decorative, strength and safety requirements.

FEATURES & BENEFITS

- > Grade 'A' Safety Glass per AS 2208:2023 Safety glazing materials in buildings;
- > depending on impact will not splinter into jagged pieces and will remain intact in the opening;
- > wide range of applications to suit energy, acoustics, decorative, strength and safety.

APPLICATIONS

Residential and commercial glazing.

RANGE

Available 6.38mm to 33.52mm thickness.

SIZE LIMITS*

Maximum Size:

5000mm x 2600mm

Minimum Size:

- > cutting from stock sheets - 260mm measuring across the diagonal or 250mm x100mm for flat ground and polished edges;
- > custom laminated - minimum dimension 400mm x 400mm or 1000mm x 200mm.

*subject to inhouse manufacturing limitations per given thickness, types and design specifications.

MANUFACTURING STANDARDS

Architectural - 6.38mm to 33.52mm Grade 'A' safety glass manufactured to AS 2208:2023 Safety glazing materials in buildings.

DESIGN & GLAZING NOTES

For energy efficiency solutions, select either SOL-R™ or Sunergy® low-E glass types. For noise reduction, select Acousta™ laminated glass. For structural and strength applications, both panels can be either heat strengthened or toughened with thicker and stronger interlayers such as SentryGlas® or DG41. Decorative elements can be added with Vanceva® coloured interlayers and ImageTek™ ceramic ink printed panels. For more details refer to Laminated Glass Design & Glazing Notes.

HOW TO SPECIFY

- > specify National Glass Laminated Safety Glass;
- > select appropriate thickness and glass type;
- > single annealed laminated, heat strengthened, toughened, toughened heat soaked laminated or in an IGU;
- > energy requirements - select SOL-R™, SOL-XT™ or Sunergy® laminated low-E glass;
- > acoustic requirements - select Acousta™ laminated glass;
- > strength requirements - depending on application, select either heat strengthened or toughened laminated using SentryGlas® or DG41 interlayers;
- > decorative applications - select Vanceva® coloured laminated glass or ImageTek™ ceramic ink printed panel options;
- > all glass to be selected and installed in accordance but not exclusively to the following Australian Standards;

AS 1288 Glass in buildings - Selection and installation

AS 2208:2023 Safety glazing materials in buildings

AS 4666 Insulating glass units

AS/NZS 4667 Quality requirements for cut-to-size and processed glass

AS 1170 Wind & Structural Design Actions