



Product Name

Sound Pro – Acoustic Glass

Product Line

Glass Project **Specialty Range**

Description of Product

Sound Pro Acoustic Glass is a Grade 'A' Laminated Safety Glass (AS/NZS 2208) comprising of two or more glass layers bonded together by a special plastic interlayer designed to reduce noise transmission through the glass.

Intended Use

Any glazing situation where a reduction in noise transmission through glass is required.

Building types: residential, retail, commercial, assembly buildings

Uses: windows, facades, shopfronts, doors, interior glazing, partition glazing.

Designs: fully framed, partially framed.

Product Identifier

Sound Pro Acoustic Glass is part of the Glass Project Specialty Range.

Relevant Building Code Clauses and Compliance

Sound Pro Acoustic Glass supplied by Glass Projects is certified as a Grade A safety glass manufactured according to AS/NZS 2208 Safety Glazing Materials in Buildings.

When designed, installed, and maintained in accordance with Glass Projects standard details and requirements, Sound Pro will comply with, or contribute to compliance of, the following performance clauses of the NZ Building Code:

B1 Structure

Clause: B1.3.1, B1.3.2, B1.3.3, B1.3.4.

Compliance: Sound Pro can be designed to meet project requirements in accordance with B1/AS1 clause 7.1 NZS4223.1, clause 7.2 NZS4223.2, clause 7.3 NZS4223.3 & Clause 7.4 NZS4223.4 or by specific engineering design to B1/VM1.

B2 Durability

Clause: B2.3.1 (b).

Compliance: When designed, installed, and maintained in accordance with Glass Projects standard details and requirements, Sound Pro will satisfy the durability performance requirements for a minimum serviceability life of 15 years.

Processed glass has an in-service history of more than 50 years when used in ordinary conditions of exposure.

E2 External Moisture

Clause: E2.3.1, E2.3.2.

Compliance: Glass is impervious to water.



F2 Hazardous Building Materials

Clause: F2.3.2 for unimpeded path of travel, F2.3.3 for use of safety glass.

Compliance: F2/AS1 clause 1.0 NZS4223.3. Sound Pro is manufactured in accordance with NZS4223.3 for human impact location to the project requirements. Safety glass is marked in accordance with NZS4223.3 clause 2.8.

F4 Safety From Falling

Clause: F4.3.4.

Compliance: Sound Pro can be designed in accordance with NZS4223.3 clause 21 Window glazing safeguarding a fall, and clause 22 Barriers, to the project requirements, as well as other designs by specific engineering design to B1/VM1.

Limitations of use

- 1. Sound Pro Laminate Safety Glass is normally available in the following sizes (design restrictions apply).

Glass Thickness	Large x Small
6.76 mm to 13.52 mm PVB	5100 mm x 3210 mm

Larger sized panes are available upon request and subject to longer lead time.

- 2. Sound Pro is not classified as fire rated glazing.
- 3. Minor edge delamination can occur in laminate glass and delamination's that occur up to 6mm in from the edge of the glass is not considered a defect.
- 4. Glass is only part of an acoustic solution and any reference to acoustic performance in this data sheet is for the glass only.

Design Requirements

Sound Pro glass can be designed for use in projects with the following scope.

Any design and installation that follows NZBC B1/AS1 section 7 and the following glazing standards:

NZS 4223.1	Glazing in buildings – Glass selection and glazing
NZS 4223.2	Glazing in buildings – Insulating glass units
NZS 4223.3	Glazing in buildings – Human impact safety requirements
NZS 4223.4	Glazing in buildings – Wind, dead, snow, and live actions

Wind Zones: All NZS 4223.4 wind zones as well as Specific Engineered Design wind pressures when designed, used, installed, and maintained in accordance with Glass Projects standard details and requirements.

Exposure Zones: All NZS 3604 exposure zones when designed, used, installed, and maintained in accordance with Glass Projects standard details and requirements.

Sound Pro glass is custom designed and fabricated to the requirements of each project. The following details must be confirmed by the specifier:

- Glass size
- Required support type or framing method.
- Project wind zone or design wind pressure.
- Acoustic performance requirements (Rw or STC).
- Any glazing performance requirements that the glass should meet including centre of glass U-value, Shading Coefficient (SC), and Visible Light Transmission as a minimum.
- Any impact or barrier loading the glass should resist.

Typical acoustic performance data values.

Glass Thickness	Make-up	Rw/STC
6.76 mm PVB Laminate	Single Glazed	34
8.76 mm PVB Laminate		35
10.76 mm PVB Laminate		36
12.76 mm PVB Laminate		38
13.52 mm PVB Laminate		39

(Acoustic performance data is indicative. Contact Glass Projects for a solution to meet your specific needs.)

Installation requirements

Glazing systems utilising Sound Pro must be designed and glazed by Glass Projects or an approved installer.

Cleaning & Maintenance

Care must always be taken when cleaning any glass and clean, grit free water, cleaning solutions, cloths, brushes, sponges, and squeegee products must be always used.

During construction

Check weekly and clean every 1 – 2 months, or as required, during construction. Protect the glass from weld and grinding splatter, concrete and mortar splashes, and impact or scratch damage from other trades.

Regular maintenance

Proprietary cleaners should be used with a soft cloth, brush, or sponge, but a mild soap or liquid detergent and warm water can work well. After washing rinse with clean water and use a clean squeegee to remove excess water.

Ensure the glass is dry and spot free. Excess water droplets will evaporate and can leave dissolved minerals on the glass that can cause surface staining particularly when a hard water supply is used.

Never use harsh solvent, abrasive, or alkaline cleaners.

Never use scrapers or razor blades to remove paint spots or sticky residue from the glass surface.

The condition of glass should be checked as part of a regular building maintenance regime and should be cleaned as soon as any build of dirt or foreign particles is noticed, but as a minimum the following is recommended.

Industrial sites – glass should be cleaned every 1 – 2 months.

Urban areas – glass should be cleaned every 3 months.

Rural areas – glass should be cleaned every 6 months.

Samples

During the design phase, choosing the right type of glass is critical and viewing a particular glass type up close is essential to get a good understanding of its visual characteristics.

300 x 300mm glass samples are available from Glass Projects upon request. There are guidelines on how glass samples should be viewed to properly understand how different qualities of light and how different glazing methods and designs can affect a person's visual perspective of glass.

An alternative to glass samples is to view a project reference in real life. Glass Projects has an extensive range of case studies available to view on our website at glassprojects.co.nz/projects.

Please contact Glass Projects to discuss your needs.

Product Selection & Technical Assistance

We work closely with our clients to understand their specific needs and develop innovative design concepts that seamlessly integrate with the overall architecture of their building. Our team of sales and engineering experts specialise in custom glass design and have a deep understanding of New Zealand regulations. We are available to provide advice on glass products to suit any application.