

**Product name:**

AGP Architectural Glass Products Limited

**Product line:**

SG Products

**Product description and its intended use**

Singled glazed glass products, custom manufactured to the requirements of each project, comprising one of the following:

- Float glass (annealed),
- Toughened safety glass,
- Heat Strengthened glass,
- Laminated glass.

*Intended use: glass in windows, doors, roof-lights & curtain wall systems from Architectural Profiles Limited (APL). Through APL's manufacturer network under the brands; Altherm, First, Vantage & Klima Series.*

**Product identifier**

SG Products

**Place of manufacture:**

Aotearoa New Zealand

**Legal and trading name of the manufacturer:**

Architectural Glass Products Limited.

**Relevant Building Code clauses:**

- B1 Structure: Performance clauses B1.3.1, B1.3.2, B1.3.3, B1.3.4
- B2 Durability: Performance clause B2.3.1 (b)
- E2 External Moisture: Performance clauses E2.3.1, E2.3.2, E2.3.7
- F2 Hazardous Building Materials: Performance clauses F2.3.1, F2.3.2 & F2.3.3
- F4 Safety from falling: Performance clauses F4.3.1 & F4.3.4
- G7 Natural Light: Performance clauses G7.3.1 & G7.3.2
- H1 Energy Efficiency: Performance clauses H1.3.1, H1.3.2, H1.3.3

**Statement on how the building product is expected to contribute to compliance:**

- B1 Structure: SG Products can be manufactured to the 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 by other parties.
- B2 Durability: SG Products when installed and maintained in accordance with AGP written instructions will satisfy the durability performance requirements for a minimum serviceability life of 15 years.
- Processed toughened safety glass and heat strengthened glass have a service history in excess of 50 years when used in ordinary conditions of exposure.
- Processed laminated safety glass often requires special glazing consideration to satisfy durability performance requirements in respect of edge de-lamination & AGP instructions & warranty must be adhered to.

- Safety glass is marked in accordance with NZS4223.3 clause 2.8
- E2 External moisture: Glass is impervious to water. Laminated glass shall be glazed in a free draining APL window system.
- F2 Hazardous Building Materials: F2/AS1 clause 1.0 NZS4223.3. SG Products can be manufactured in accordance with NZS4223.3 for human impact location to the project requirements.
- F4 Safety from falling: SG Products can be manufactured in accordance with NZS4223.3 clause 21 Window glazing safeguarding a fall, to the project requirements.
- G7 Natural Light: SG Products can be manufactured with the area & Visible Light Transmittance (VLT) of the glass specified by the project design requirements, to help provide natural light & awareness of the outside. The project design may comply with G7/AS1 second edition, G7/AS2 first edition, G7/VM1 second edition design by others parties, or an alternative design provided by other parties such as a lighting engineer.
- H1 Energy Efficiency: SG Products can be made from a range of possible glass types, to contribute to the window insulation (R-value) requirements of the project. Depending on the window or door type, dimensions and glass type, determined in accordance with H1/VM1 Fifth Edition Amendment 1, Paragraph E1 to a design provided by other parties such as a mechanical engineer.
- In all these situations SG Products must be transported, handled, installed into an APL window system (brands Altherm, First, Vantage & Klima), cleaned and maintained in accordance with AGP written instructions.

## Limitations on the use of the building product:

**SG Products limitations are noted in the SG Products Warranty. Refer to the AGPL website: <https://agpl.co.nz>**

### Other SG Products limitations:

- PVB laminated safety glass ins not to be used around Chlorinated pool enclosures.
- Minimum size AGP toughened 250mm x 102mm or 270mm diagonal.
- Minimum size annealed and laminated 200mm x 150mm
- Maximum long dimension 5000mm (depending on the glass thickness).
- Maximum short dimension 2800mm (depending on the glass thickness).
- Maximum glass thickness 12mm nominal. 15mm & 19mm by special order.
- Minimum glass thickness 4mm.
- Maximum weight 750kg.
- SG Products is not fire resisting glazing.
- AGP Glass to be installed, cleaned and maintained in accordance with AGP written instructions.

## Design requirements that would support the use of the building product:

**SG Products can be manufactured for, but not limited to, use in projects within the following scope:**

- All building types.
- All NZS3604 wind zones up to & included Extra High
- All Specific Engineering Design (SED) wind pressures up to a maximum of 10.0 kPa ULS & 10.0 kPa SLS

**SG Products is custom manufactured to the requirements of each project.**

**Prior to manufacture, the following project selections must be confirmed by the purchaser:**

- Size
- Thickness
- Glass type
- Project wind zone or SED factored wind pressure.
- Glass performance selection, including Ug, solar heat gain (SHGC) or Solar Factor (SF/g-Value), visible light transmittance VLT, safety glass requirements & colour.

### Installation requirements:

SG Products must be installed strictly in accordance with the APL manufacturing pack glazing details or AGP written instruction. refer to branded sections available on the Eboss website.

- <https://www.eboss.co.nz/library?Keyword=altherm>
- <https://www.eboss.co.nz/library?Keyword=first>
- <https://www.eboss.co.nz/library?Keyword=vantage>
- <https://www.eboss.co.nz/library?Keyword=klima>

*Ensure glazing pocket/platform is clean and free of contaminants, drainage holes are clear of dirt and debris.*

*SG Products must be transported, stored & handled in accordance with AGP Glass Handling, Storage & Transportation Guide.*

<https://agpl.co.nz>

### Maintenance requirements:

SG Products, can be damaged during the construction process. Remove any stickers or cork pads that remain on the glass & rinse the glass thoroughly with clean water, then clean in accordance with AGP's Care and maintenance instructions.

<https://agpl.co.nz>.

All drainage holes in the frame must be cleared and cleaned at the same time as the glass.

SG Products should be cleaned at least every 3 months.

### Refer also to:

- AGP Guide To Visual Quality
- AGP Guide To Thermal Stress Breakage
- AGP Guide To Condensation & Dew.
- these are available here: <https://agpl.co.nz>

### Is the building product/building product line subject to warning or ban under section 26?:

Yes  No