

## Product name:

The AGP System®

## Product line

The AGP Insulating Glass Units (IGUs)

## Product description and its intended use

- IGUs custom manufactured to the requirements of each project, comprising two or more panes of glass, hermetically sealed with a double edge sealing system.

*Intended use: IGUs 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®.*

## Product identifier

The AGP System®

## Legal and trading name of the manufacturer(s):

Architectural Glass Products Limited

## Place of manufacture:

Aotearoa New Zealand

## 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: The AGP System® 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: The AGP System® is tested in accordance with NZS4223.2 Clause 5.1.2 (b) BS EN 1279.2 & clause 5.1.2.2 (a) BS EN 1279.3 & clause 5.1.2.3 (b) BS EN 1279.1 & BS EN 1279.4 & Clause 5.1.3. The AGP System® quality controlled in accordance with clause 5.2 (b) in accordance with the principles & procedures set out in BS EN 1279.6. The AGP System® is marked in accordance with clause 5.3. Refer to Window & Glass Association of New Zealand (WGANZ) website for proof of compliance. Only listed on their website if compliant. <https://www.wganz.org.nz/double-glazing-manufacturers/>
- E2 External moisture: Glass is impervious to water
- F2 Hazardous Building Materials: F2/AS1 clause 1.0 NZS4223.3. The AGP System® can be manufactured in accordance with NZS4223.3 for human impact location to the project requirements.

- F4 Safety from falling: The AGP System® can be manufactured in accordance with NZS4223.3 clause 21 Window glazing safeguarding a fall, to the project requirements
- G7 Natural Light: The AGP System® can be manufactured with the area & Visible Light Transmittance (VLT) of the IGUs 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: The AGP System® can be made from a range of possible glass types, spacer widths and Argon gas, to contribute to the window insulation (R-value) requirements of the project. Depending on the window or door type, dimensions and IGU type
- R-values between R0.17 and R0.91 can be provided, determined in accordance with either H1/AS1 Fifth Edition Amendment 1, Table E1.1.1, or with H1/VM1 Fifth Edition Amendment 1, Paragraph E1
- In all these situations The AGP System® must be transported, handled, installed into an APL window system (brands Altherm, First, Vantage & Klima Series), cleaned and maintained in accordance with AGP written instructions.

## Limitations on the use of the building product:

- The AGP System® is not fire resisting glazing.
- The AGP System® limitations are noted in in the AGP Insulating glass unit warranty  
Refer to the AGP website: <https://agpl.co.nz>
- Other limitations with The AGP System®:
  - Maximum IGU thickness 60mm
  - Minimum IGU thickness 14mm
  - Maximum individual pane (glass) thickness 26mm
  - Minimum IGU size 350mm x 180mm
  - Maximum long dimension 5000mm (depending on the glass thickness)
  - Maximum short dimension 2800mm (depending on the glass thickness)
  - Maximum weight IGU 750kg
  - Silicone secondary sealed IGU required where the seal is exposed to UV light
  - Silicone secondary sealed IGUs required for IGUs near chlorinated pools
- The AGP System® being installed, cleaned and maintained in accordance with AGP written instructions.

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

**The AGP System® can be manufactured for, but not limited to, use in projects within the following scope:**

- All type of building types located at less than 800m above sea level
- 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

The AGP System® is custom manufactured to the requirements of each project.

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

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

### Installation requirements:

The AGP System® 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.

The AGP System® must be transported, stored & handled in accordance with AGP Glass Handling, Storage & Transportation Guide. <https://agpl.co.nz>

### Maintenance requirements:

The AGP System® includes glass, is a product that 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.

The AGP System® should be cleaned at least every 3 months.

### Refer also to:

- AGP Guide To Visual Quality Residential
- AGP Guide To Visual Quality Commercial
- AGP Commercial Dimensional Tolerance
- 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