

# State of the art glass

New Zealand's leading high performance glass

# The AGP System<sup>®</sup>

Your windows and doors are a complete system with each component contributing to the overall performance and comfort of your home. AGP are committed to ensuring each component performs at the highest level, which is essential for a warm, comfortable, healthy home.

That's why AGP have introduced a high performance insulated system, The AGP System<sup>®</sup>, to New Zealand homes.

The AGP System<sup>®</sup> is a double-glazed unit which is made using world-class components and industry leading, global technology. AGP developed this state-of-the-art product for New Zealand's varying conditions.

## Solux-E<sup>®</sup> or Solux Ultra<sup>™</sup>

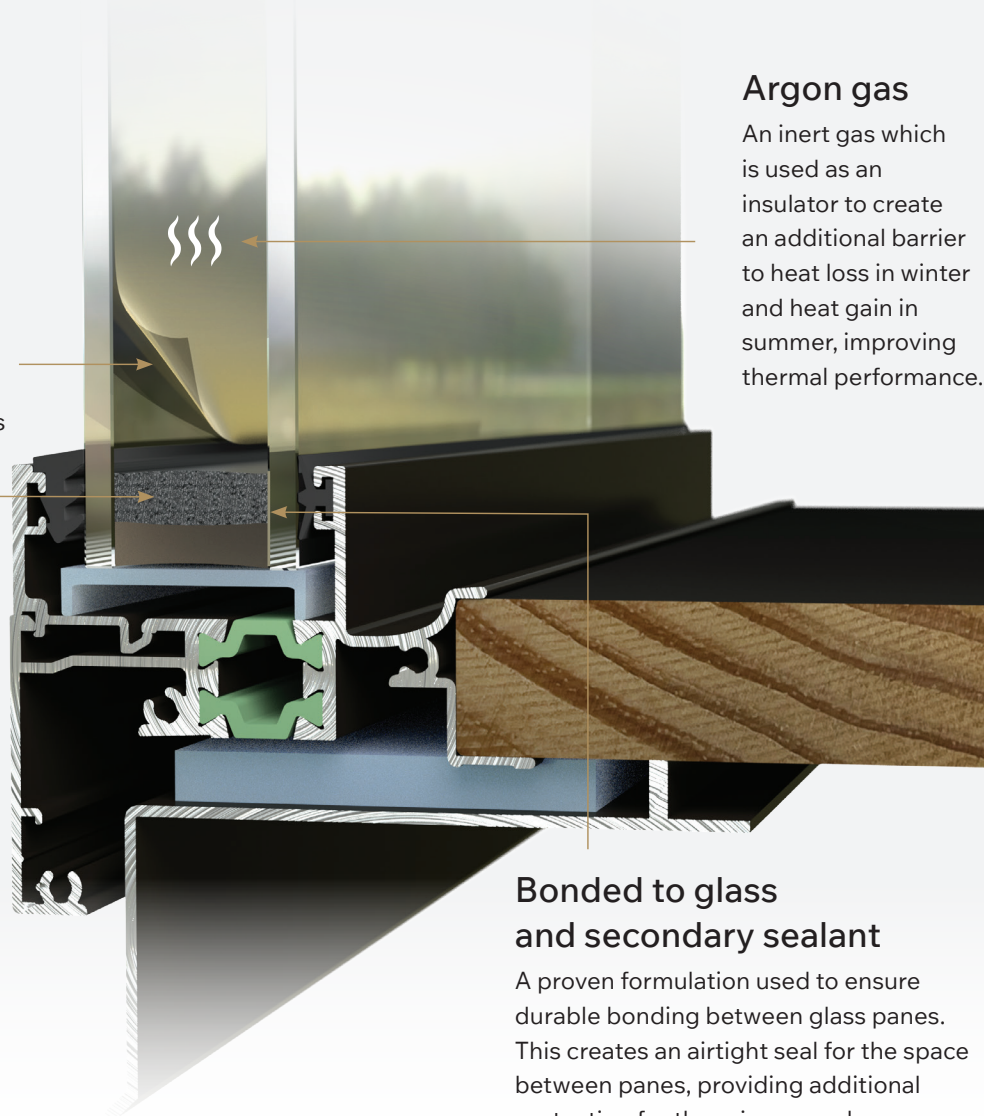
AGP offer two Low-E options that contribute towards the thermal efficiency of your home. Both Low-E coatings are virtually invisible, and are applied to the inside surface of the exterior glass pane, protecting it from the elements.

## ATS - Architectural Thermal Spacer<sup>®</sup>

A warm-edge spacer that bonds the two panes of glass together forming a double-glazed unit. ATS - Architectural Thermal Spacer<sup>®</sup> creates an airtight bond to ensure the best retention of argon gas used in The AGP System<sup>®</sup>.

## Argon gas

An inert gas which is used as an insulator to create an additional barrier to heat loss in winter and heat gain in summer, improving thermal performance.



## Bonded to glass and secondary sealant

A proven formulation used to ensure durable bonding between glass panes. This creates an airtight seal for the space between panes, providing additional protection for the primary seal.



## Warranty

AGP back its world-class double-glazed products with an extended 12-year warranty – two years longer than the current industry standard. All AGP products meet or exceed requirements of the New Zealand Building Code.

See [agpl.co.nz/terms](http://agpl.co.nz/terms) to see the terms and conditions of this warranty.

# AGP's Low-E products

## SOLUX-E®

*Solux-E® is standard with The AGP System®.*

### Year-round comfort and energy savings

Solux-E® has a low emissivity (Low-E) coating applied to the glass, which is virtually invisible. The Solux-E® coating reflects the heat back to the inside, reducing winter heat loss through the glass. The reverse happens during summer helping to limit overheating.



#### Year-round comfort

Solux-E® works to minimise heat flow allowing you to stay warmer through winter and cooler through summer. You'll have less warm air escaping in the winter and less heat entering through the glass in summer without the need to use tinted glass. The measure of heat entering through the glass is known as the Solar Heat Gain Coefficient (SHGC).

Solux-E® helps to retain heat in the home, achieving a more stable home temperature and year-round comfort.



#### Maximises natural daylight

Solux-E® provides excellent light transfer and clarity, keeping the view clear and the rooms in the home light and bright.



#### Smaller energy bills

A more constant temperature means less energy used to heat and cool the home, providing energy savings year-round. Reduced energy consumption (U-value) puts less demand on New Zealand's power grid, reducing the environmental footprint of your home.



#### Protects against fading

Solux-E® reduces the amount of damaging light coming through the glass reducing fading in soft furnishings and fabrics.

Take your home's comfort a step further with an upgrade to

# SOLUX ULTRA™

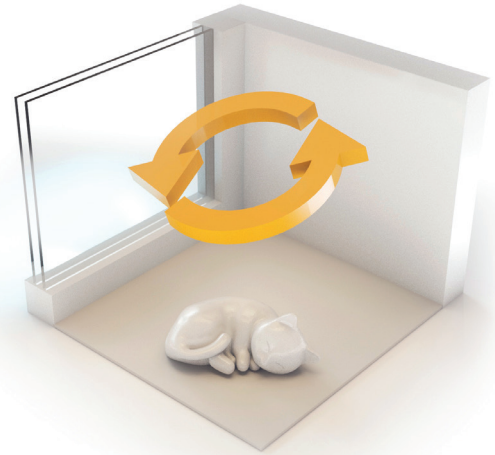
The perfect blend of clarity, overheating control and fading protection.

Due to its superior solar control, Solux Ultra™, is the best choice for homeowners wanting to control overheating and is highly recommended for buildings with higher window-to-wall ratio (WWR).



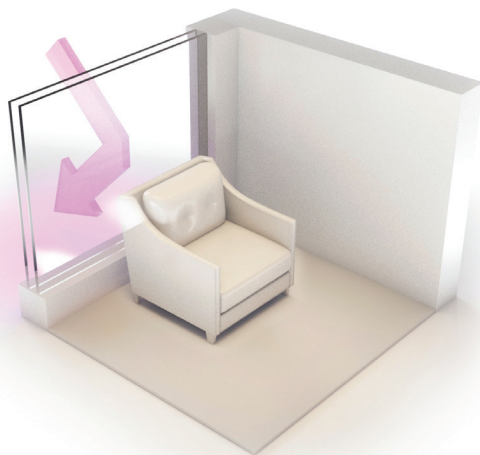
## Controls overheating

Stay comfortable inside with a further 23%\* reduction in overheating. High insulation levels and large window areas in modern home design can result in frequent overheating. Solux Ultra™ works hard to let natural light stream in with less heat entering the home, reducing overheating and also minimising the need to use air conditioning.



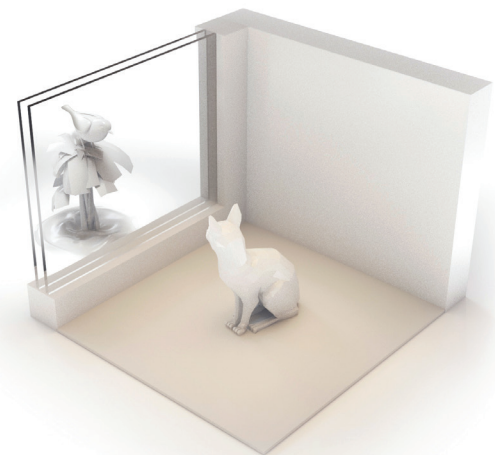
## Retains heat

Solux Ultra™ reflects the warm air in the home back into the house rather than escaping through the glass, retaining heat by a further 9%\*. This reduces the energy needed to keep the home warm in cooler months.



## Protects against fading

Solux Ultra™ delivers an additional 10%\* increase in fading control, protecting your interior furnishings to keep them looking better for longer.



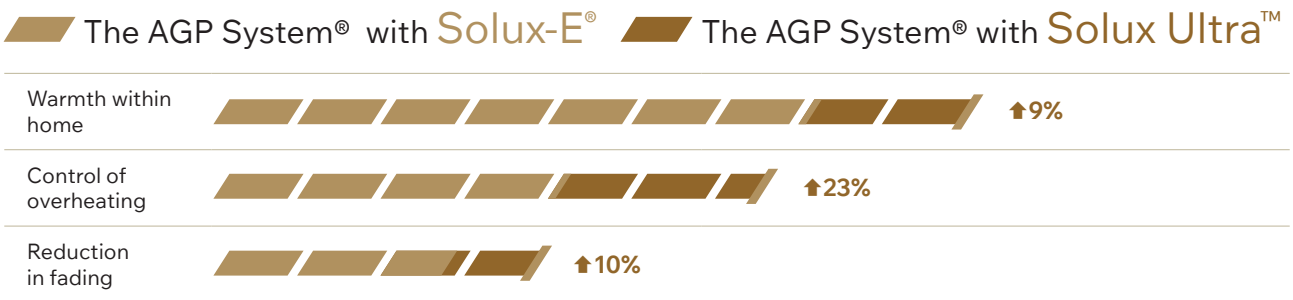
## Maximises natural daylight

The brilliantly neutral colour of Solux Ultra™ sets it apart from other Low-E glass and ensures you enjoy natural light and unblemished views all while delivering improved temperature and fading control.

\*For statistics and technical data, please refer to Comparing Solux-E® and Solux Ultra™ table on the next page.

# Comparing Solux-E® and Solux Ultra™

		The AGP System® with Solux-E®	The AGP System® with Solux Ultra™
		4mm Solux-E® #2 / 16mm ATS with argon gas / 4mm clear	4mm Solux-Ultra™ #2 / 16mm ATS with argon gas / 4mm clear
Light properties	Visible light transmission (VLT)	76%	73%
	External visible light reflection (VLR)	15%	13%
Energy properties	Fading control (Tdw-ISO)	0.60	0.54
	Damage weighted UV transmission		
	Solar Heat Gain Coefficient (SHGC)	0.51	0.39
	U-value (Centre of glass)	1.1	1.0



\* Data is indicative only. Data is for glazing placed vertically. Data is not a guarantee of in service performance. Tdw-ISO is a damaged-weighted UV transmittance. U-value calculated using CEN conditions, balance of data calculated using NFRC conditions.

## External dew

Solux-E® and Solux Ultra™ are so efficient, dew can sometimes form on the outer pane. This is due to the outer surface being colder due to less heat loss (which is normal with all Low-E glass). Refer to the AGP visual quality of glass or condensation guide at [agpl.co.nz](http://agpl.co.nz)

## Glossary

### VLT – Visible light transmission

The percentage of visible light that passes through the insulated Glass Unit (IGU) from the total visible light outside.

### VLR – External visible light reflection

The percentage of visible light that is directly reflected from the exterior surface of the IGU.

### U-value

The transfer of heat through the glass. A lower U-value refers to a lower heat transmission by the glass.

### Tdw-ISO – Fading control

A weighted UV measure of the solar energy that causes fading which is transmitted through the IGU.

A lower Tdw-ISO ratio refers to better fading control by the IGU.

### SHGC – Solar Heat Gain Coefficient

The fraction of total solar gain admitted through the glass. The lower the SHGC, the more solar heat is rejected.



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