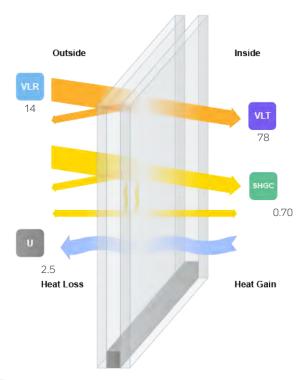


SOLOS Glass are one of Australia's earliest and largest manufacturers of IGU's, so the KlymetControl® brand comes with a long history of both manufacturing excellence and installation longevity.

All KlymetControl® IGU's are manufactured to both AS 4666 and EN 1279 Pt 2 and are widely used across a broad range of both Commercial and Residential window applications. KlymetControl® IGU's are manufactured with argon gas fill as standard for superior energy efficiency performance.

6mm EnviroClear™ / 12mm / 6mm EnviroClear™



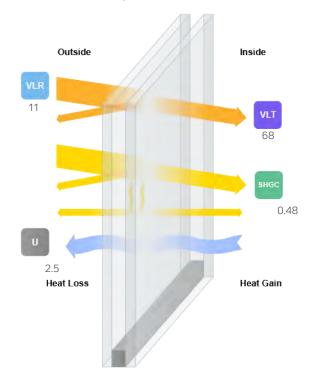
Commercial Applications

Available in a wide range of product combinations to help manage the availability of suitable levels of natural light in conjunction with achieving the required levels of both solar control and thermal insulation, KlymetControl® is a range of Insulated Glass Units (IGU's) incorporating high performing specialist glass products sourced from some of the World's leading glass manufacturers.

Click here to view performance data for our range of Commercial IGU's

Helping to provide reduced heating and cooling costs by improving both the SHGC and, through effectively helping to manage the U Value, the thermal insulation of the building, KlymetControl® can achieve excellent levels of both energy efficiency and occupier comfort.

6mm EnviroTone™ SuperGreen / 12mm / 6mm EnviroClear™





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As such, KlymetControl® helps achieve a balanced living and working space for the buildings occupants, as well as helping to provide economically viable and sustainable buildings.

By incorporating different glass types from across the SOLOS Glass product range within a KlymetControl® IGU, a number of additional benefits can also be achieved, including improved:

- Noise reduction Silencia™
- Safety Protekta™, TufGlas™
- Security SecurView™
- Aesthetics Chroma™, EnVision™

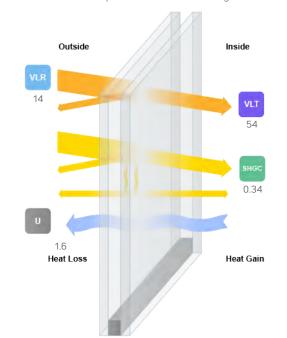
Further, with the incorporation of KlymetShield $^{\text{TM}}$ or other Low E glass types within the KlymetControl $^{\text{R}}$ glass make-up, further enhanced overall energy management is easily and cost effectively achievable.



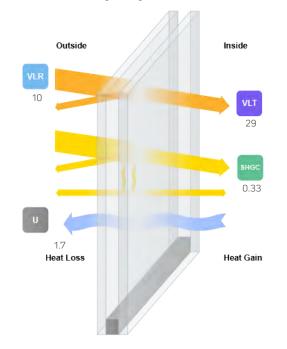
Applications

- Atriums
- Airports
- Car showrooms
- Commercial medium and high rise facades
- Hospitals
- Sports stadiums
- Shopping Centres

6mm EnviroTone™ SuperGreen/12mm/6mm KlymetShield™



6mm EVantage¹ Grey*/12mm/6mm EnviroClear™





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Residential Buildings

The role that glass plays in managing the internal environment of the home is becoming increasingly important.

Selecting the most appropriate glass type to not only provide year round comfort but to also assist in improving the overall energy efficiency, safety and security of the home is one of the most important decisions to make for either a new build or home improvement/renovation project.

KlymetControl® – Some Key Features

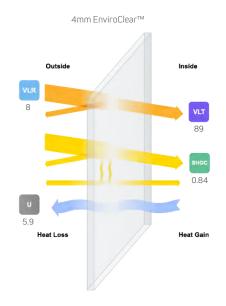
Properly selected and installed windows incorporating KlymetControl® Insulating Glass Units (IGU's) assist in helping to control the level of natural light entering the home whilst:

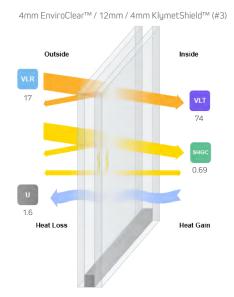
- Improving the overall comfort and energy efficiency of the home
- Reducing both heating and cooling costs
- Improving the overall star rating of a residential window
- Reducing unwanted solar glare
- Reducing noise from a variety of sources
- Maximising the available living space within the home
- Increasing the levels of both safety and security within the home

KlymetControl® IGU's - Helping to manage the Australian climate all year round

With standard clear glass in the windows, especially in single glazed windows, the cool and cold temperatures of Winter and hot temperatures of Summer can accentuate this fluctuation and compound a lack of comfort, as well as significantly higher energy bills.

Whilst the temperature cycle of Australia's colder and more temperate climates, for example in Tasmania, ACT, Victoria and some parts of NSW can fluctuate significantly depending on the season or time of year, the temperature range within which we as householders feel comfortable in is comparatively narrow.







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Reduces heat loss

Even when using clear glass in the IGU, KlymetControl® offers over a 50% improvement in thermal insulation performance over a clear, single glazed option.

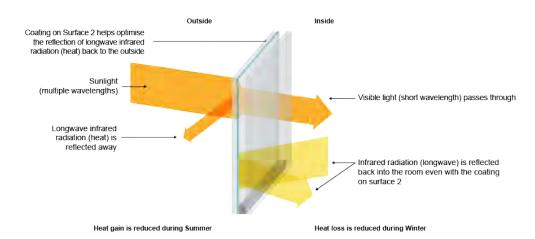
Improve that by a further 30% by incorporating KlymetShield™ low E glass as one of the panes of glass and the benefits of installing KlymetControl® start to become apparent.

For optimum performance in reducing heat loss from the building, the Low E coating is usually placed on surface 3 of the IGU.

Reducing heat gain

In both the tropical and subtropical climate zones and the hot summer months of the more temperate climate zones, the main performance requirements involve reducing any heat transfer from the outside to the inside of the building, helping to maintain a cooler internal environment inside the building. The performance of KlymetControl® in reducing solar heat gain can be enhanced by using a solar control glass, for example EnviroTone™, as the outer pane.

KlymetControl® IGU with Low E Coating on Surface #2

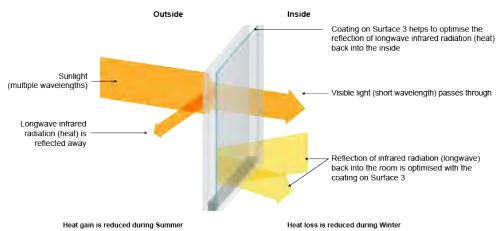


Alternatively, a reduction in solar heat gain can also be achieved through the incorporation of either a clear or toned KlymetShield $^{\text{TM}}$ Low E glass as the outer pane of the IGU with the coating facing the air space on surface 2. Placing the Low E coating on surface 2 helps to reflect a higher percentage of the heat energy and improves the solar heat gain and thermal performance of the window.

The Location of the Low E Coating

The Low E coating is located on either surface 2 or 3 inside the unit depending on the glass combination and performance required, although the Low E coating is usually placed on surface 2 to reduce the solar heat gain (SHGC) into the building and surface 3 to improve the U value and overall thermal insulation

KlymetControl® IGU with Low E Coating on Surface #3





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It isn't just about improved comfort and energy efficiency, but providing a whole host of other benefits too

One of the advantages of having KlymetControl® Insulated Glass Units specified and installed is that by incorporating two panes of glass, as well as a choice of air space options, the unit can be custom manufactured to offer a whole range of benefits unique to the particular application into which it is being glazed.

As such, KlymetControl® can effectively assist the householder in providing alternative options to a number of problematic areas often associated with glazed areas:

- Noise Reduction Whilst IGU's by themselves can't provide significant noise reduction performance until the air space approaches 100mm (impractical in most circumstances), incorporation of a pane of Silencia™ as part of the IGU make-up significantly reduces the transmission of unwanted noise through the glazing and plays a key role in providing a residential sound management solution. This is the perfect solution to reducing traffic, rail or aircraft noise; the distance from the source, the type of noise and the desired internal noise level all playing key roles in determining the correct thickness of Silencia™ to be used
- Security Minimising the risk associated with unwanted forced intruder entry is one of the main concerns of any householder. Incorporating a pane of SecurView™ laminated glass into the KlymetControl® IGU will provide a much stronger barrier to intruder entry due to SecurView™ incorporating an interlayer which is 4x thicker than standard Protekta™ laminated safety glass. Whilst a KlymetControl® IGU incorporating Protekta™ laminated glass is 20x more difficult to break through than an IGU incorporating standard float glass, for applications where additional security maybe preferred, such as windows to a home office, computer room, home studio etc, incorporating SecurView™ into a KlymetControl® IGU is a perfect solution
- Safety where the glazing needs to meet the requirements of "AS/NZ 2208 Safety glazing materials in buildings" there is a need to incorporate one or more of the SOLOS Glass range of safety glass types. KlymetControl® can accommodate any one of the TufGlas™ and/or Protekta™ glass range to provide a suitable level of human impact resistance across a broad range of applications such as low level windows and doors, patio doors, sliding doors and rooflights

Benefits

- All KlymetControl® IGU's are manufactured to both AS 4666 and EN 1279 Pt 2, backed by the SOLOS Glass 5 year manufacturer's warranty for peace of mind
- Excellent range of overall performance attributes. See our Performance Data for more details
- Can be manufactured using either an aluminium or OptEseal™ warm edge flexible silicone spacer for even greater control of overall energy efficiency performance
- Can be manufactured using most glass types across the SOLOS Glass product range for a broad range of applications, solutions and designs
- Further enhanced insulation and reduced energy costs through the incorporation of KlymetShield™ Low E glass or any one of the range of SOLOS Glass low emissivity glass types.
- Exceptional levels of safety and security available through the incorporation of Protekta™, TufGlas™ and SecurView™ to meet the requirements of AS/NZS 2208
- By incorporating Silencia[™] as one or more panels of glass within the IGU, a broad range of noise reduction performance levels are possible to mitigate the transfer of traffic, rail and aircraft noise
- Can be manufactured in a range of shapes in accordance with the SOLOS Glass Custom Shape Catalogue

Applications

- Door sidelights
- External windows and doors
- New build and retrofit projects
- Rooflights

Maximum Size

6000mm x 3210mm

Minimum Size

180mm x 350mm

Maximum Weight

800kg

Spacer Widths

6mm, 8mm, 10mm, 12mm, 16mm and 20mm



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