

DUO ULTRA™

I N S U L A T E D G L A S S U N I T S



NATIONAL GLASS

DUO ULTRA™ - Insulated Glass Units

When it comes to superior energy control, comfort, noise reduction and strength, two panels of glass are better than one. Duo Ultra™ Insulated Glass Units (IGU), consist of two panes of glass bonded together by a spacer and separated by a hermetically sealed Argon gas filled space. This space or gap acts as an additional thermal barrier between the inner and outer pieces of glass, making the transfer of heat more difficult.

Duo Ultra™ units feature a warm edge Super Spacer® made of an extruded, thermoset polymer structural silicone foam which delivers exceptional performance through lower conductivity than aluminium spacer units, Argon gas retention and long term durability.

Features & Benefits:

- › exceptional performance in reducing summer heat gain and winter heat loss
- › maximises the level of natural daylight in the room or home
- › greater comfort for occupants
- › option to include noise reduction and 99% UV block out glass
- › 'dual seal system' for added durability.



Energy & Climate



Less energy, greater comfort, better future

For improved energy efficiency with greater solar and thermal control, Duo Ultra™ offers a range of products to suit all climatic conditions. Duo Ultra Clear is ideally suited for mixed and cooler climates, Grey and Neutral 50 for warm climates. The ultra high performance Low-E coatings in Duo Ultra™ units still allow high levels of natural daylight into rooms or the home. Laminated glass panels can be optioned to block up to 99% of harmful UV light.

Noise



Create a quiet haven

Reducing noise is better achieved by combining Duo Ultra™ units with Acousta™ laminated glass panels when compared to ordinary single glass.

Acousta™ laminated glass uses an advanced, three layer system designed to decouple and disseminate sound waves for superior sound damping performance. This patented system target sounds in the 1000 – 3000 Hz range which is the “most sensitive range of human hearing” that allows the most irritating of sounds to penetrate windows.

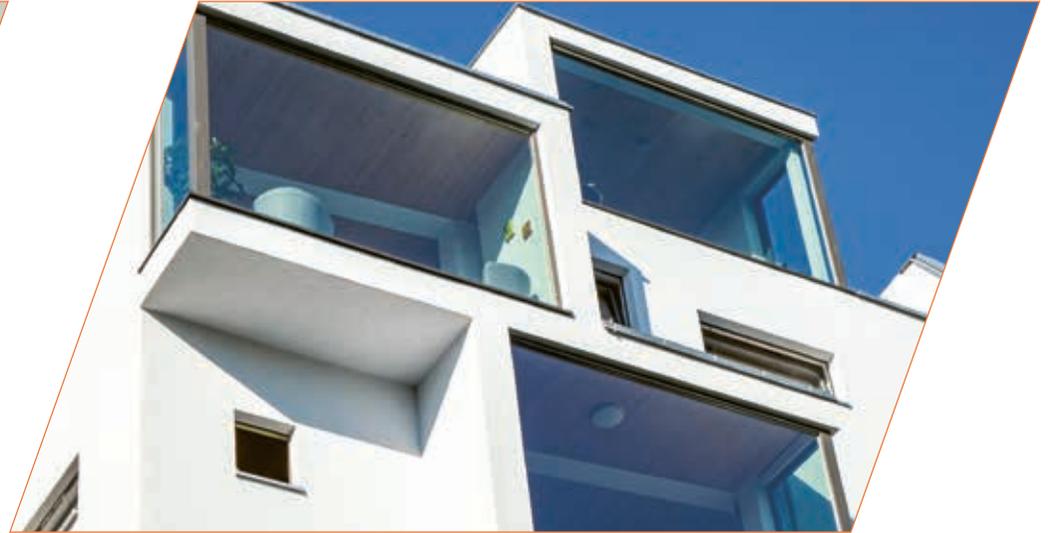
Safety & Security



Security with a view

All Duo Ultra™ units are made as standard with either Grade 'A' Toughened or Laminated safety glass depending on option level chosen. Two panels of glass also make it harder to breach the window or door opening compared to ordinary single float glass. For greater security, units can be built with laminated panels with extra thick 1.52mm PVB or SentryGlas® interlayers.

Structural & Strength



Meeting the demands for bigger glass panels

The air space in IGU's in conjunction with two panels of glass act as a 'shock absorber' or 'spring' allowing higher wind loads to be applied compared to equivalent single glass thickness. This feature also allows for larger areas to be glazed when human impact Standards are adhered to (as per AS 1288-2006 Australian Standard™ Glass in buildings – Selection and installation).

Duo Ultra™

Duo Ultra™ L0 - Energy - Safety

Hi performance glazing option to suit different climatic conditions. Ranging from Clear which offers moderate SHGC performance combined with high levels of natural light transmission to Neutral 50 super low SHGC, ideal for hot climates or where larger expanses of glazing need summer heat protection. All Duo Ultra™ products offer superior insulation values compared to that of standard single glass and IGU's.

Duo Ultra™ L1 - Energy - Safety - UV blocking

Upgrade performance with addition of a laminated safety glass panel for added UV protection.

Duo Ultra™ L2 - Energy - Safety - UV blocking - Noise Reduction

Upgrade performance with addition of an Acousta™ Noise reduction laminated safety glass panel.

Duo Ultra™ units have as standard, new generation Low-E glass technology for improved performance over standard IGU's. All units are manufactured with Grade 'A' standard safety glass manufactured to AS2208.

Options	U-Value	SHGC	VLT%
Duo Ultra™ L0			
Clear	1.37	0.56	80
Grey	1.37	0.41	50
Neutral 50	1.32	0.25	50
Duo Ultra™ L1			
Clear	1.36	0.53	79
Grey	1.35	0.36	39
Neutral 50	1.32	0.25	50
Duo Ultra™ L2			
Clear	1.35	0.52	79
Grey	1.36	0.34	38
Neutral 50	1.32	0.25	50
<p>U-Value A measure of the thermal insulation of the glass and expressed as watts per square metre. The lower the number the better the performance of the glazing.</p> <p>SHGC Refers to Solar Heat Gain Co-efficient and is a common measure used in regards the cooling of the building. The lower the number, the more efficient the glass in reducing the sun's direct energy impact through the glass.</p> <p>VLT % Refers to the % Visible Light Transmittance. Simply a measure of the amount of natural daylight the glass allows.</p> <p>Performance data shown glass only values, 12mm Argon gas space, based on Low-E glass positioned to surface #3. Neutral 50 glass options are positioned to surface #2.</p>			

Advanced Technology

National Glass has installed the latest advanced machinery for manufacturing Duo Ultra™ Insulated Glass Units, seamlessly integrated with production lines including the robotic application of spacer and sealants for high quality finish.



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