

The Technical Mandatories

Glazing compounds and sealants may react with the IGUs.

- + For all installations JELD-WEN Glass Australia recommends a non-acidic silicone with a neutral base be used
- + Storage Instructions: Glass should be stored in an upright position, under the following conditions:
 - In a dry, well-ventilated warehouse
 - Under no circumstances stored outside
 - Glass should be separated with cork pads/paper interleaving for transport
- + Do not expose edges to standing water and moisture, as this can result in seal failure – please refer to the Handling, Storage and Installation Instructions on www.jeld-wenglass.com.au
- + Units transported to and installed at altitudes greater than 800m above sea level may exhibit altitude pressure problems and must have capillary tubes for pressure equalisation – please contact JELD-WEN Glass Australia for details



LET YOUR IDEAS TAKE FLIGHT WITH CUSTOMISED GLASS OPTIONS

JELD-WEN Glass Australia has set a new standard in glass manufacturing. Incorporating the world's most advanced and sophisticated glass technology, you now have the choice of 4 customised processes that deliver optimum glass products to realise your vision. Whether it's painted custom laminate, a printed IGU or a combination of all 4 processes, JELD-WEN Glass Australia can tailor a solution for your individual needs.



IGUs – Size Parameters

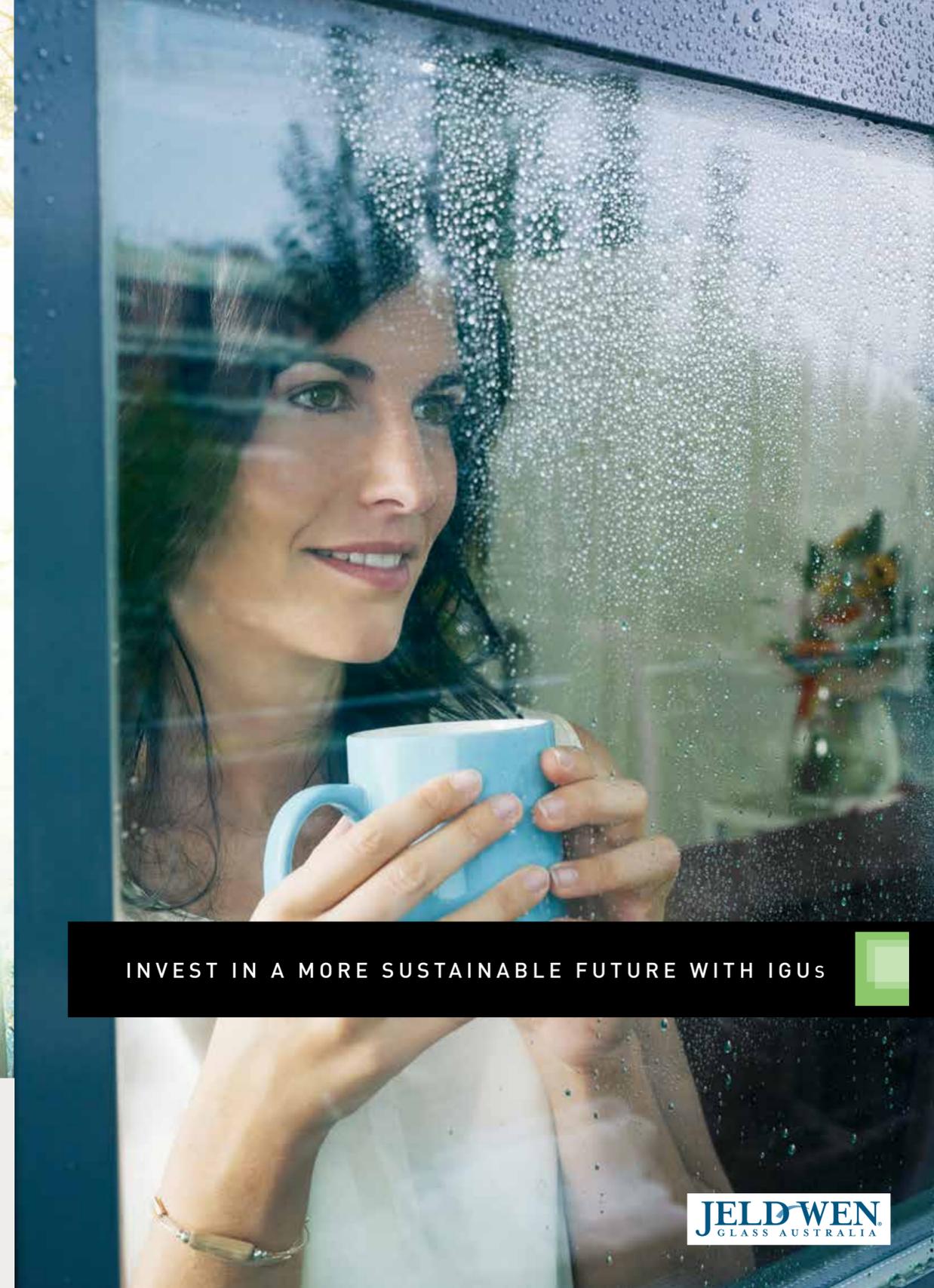
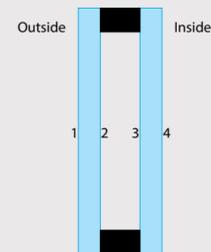
- + **Minimum size** 380 x 180mm
- + **Maximum size** 3500 x 2500mm

ORDERING – IT'S ALL IN THE DETAIL

When specifying and ordering IGUs, please confirm the following:

| | |
|---------------------|--|
| Outer Glass | thickness / type / coating position / pattern |
| Spacer | width / type (argon or air) / colour |
| Inner Glass | thickness / type / coating position / pattern |
| Secondary seal Type | polysulphide is standard, specify if structural silicone is required |

SURFACE POSITIONS



INVEST IN A MORE SUSTAINABLE FUTURE WITH IGUs

JELD-WEN
GLASS AUSTRALIA

www.jeld-wenglass.com.au

For all technical specifications, product disclaimers and warranty information applicable to this flyer and other JELD-WEN Glass products please visit jeld-wenglass.com.au

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JELD-WEN
GLASS AUSTRALIA



Glass technology for today

A well-insulated building will provide year round comfort.

Reducing greenhouse emissions and controlling escalating energy costs are two subjects top of mind for most Australians. With strict building regulations in place, there is even greater emphasis on communities to incorporate energy saving and sustainable initiatives across residential and commercial building design.

Fortunately, both of these issues can be addressed by replacing single pane glass in your windows with Insulated Glass Units (IGUs).

In practical terms, IGUs are manufactured by teaming two or more pieces of glass together, separated by a spacer to create a sealed unit.

Traditional single pane glass is a poor insulator that allows heat to transfer at a high rate. IGUs provide insulation with the layer of air or argon, sealed between the two or more panels of glass, which provides effective insulation.

The combination of different glass types, spacer widths and spacer types, not only provides insulation and increase or decrease solar heat gain, but also provides added safety, privacy, noise reduction and an increased level of natural light.

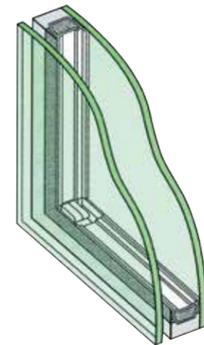
It is the glass technology for today that is creating more economical, environmentally friendly and comfortable buildings to live and work in.

A SUPERIOR LEVEL OF INSULATION

JELD-WEN Glass Australia offers two spacer options.

Aluminium Spacer

Panels of glass are separated by an aluminium spacer, which contains a molecular sieve desiccant to absorb moisture within the cavity. The panels are sealed with polyisobutylene (PIB) as a primary seal, and then polysulphide is applied as a secondary seal.



T-Spacer

From a technological perspective, this is the ultimate in innovative spacer technology. When comparing with an aluminium spacer, a T-Spacer is constructed from flexible, silicone foam, delivers a greater degree of insulation than any other spacer in the market.

T-Spacer units are sealed with a PIB primary seal and Polysulphide secondary seal. A structural secondary seal is also available.



Look! No Condensation

When humid or moist air comes into contact with a cool surface, it is natural for condensation to occur. In colder climates, the same thing occurs when the outside temperature is significantly lower than the inside temperature.

Therefore, to alleviate condensation and keep sight lines clear, it is the spacer that becomes the barrier between the cold air side and warm air side of the window.

Unrivalled T-Spacer Performance

- + Superior insulation performance
- + Lowest total U Value available
- + Highest condensation resistance
- + Cleanest units with consistent sightline, including 90° corners

T-Spacers are manufactured using a fully automated, state of the art production line where human interaction is minimal. This ensures the ultimate in IGU quality.

Manufacturing time is also significantly reduced via faster spacer application and the elimination of desiccant filling and corner key assembly.

Using leading spacer technology, and access to the latest in global glass technology, JELD-WEN Glass Australia can work effectively with customers to achieve optimum performance, created specifically for individual projects.

IGUs – Access All Areas

For the ultimate glazing solution that meets BCA's energy efficiency requirements, IGUs can be used across all window, door and roof applications.

Typically, they are used in:

- + Residential Homes
- + Office Buildings
- + Apartments
- + Shopping Centres
- + Townhouses

With windows contributing up to 20% of heat loss and up to 35% of heat gain to a building envelope, selecting the correct glass for a project is imperative.

The typical space between panes ranges from 6mm to 20mm, with a 12mm spacer recommended for optimal thermal performance.



Thermal Performance - Single Glaze vs IGUs

| | Glass Type | Visible Light Transmission | Solar Heat Gain Co-efficient | U Value |
|----------------|---|----------------------------|------------------------------|---------|
| Standard Glass | 4mm Clear | 89% | 0.85 | 5.88 |
| Good | 4mm Clear Low E | 82% | 0.72 | 3.72 |
| Better | IGU: 4mm Clear / 12mm Air / 4mm Clear | 82% | 0.72 | 3.72 |
| Best | IGU: 4mm Clear / 12mm Air / 4mm Clear Low E | 73% | 0.70 | 1.65 |

