

CHOOSE  
THE  
PERFECT  
GLASS  
FOR YOU.

**TREND**<sup>®</sup>  
WINDOWS

& DOORS





## SET YOUR OWN TREND.

Nothing is more intensely personal than your home. It is a reflection of who you are and reveals how you live. The design decisions you make will determine your lifestyle. A huge part of this is your windows and doors, your connections from the inside to outside. And the glass you choose, will make a huge contribution to keeping you and your family feeling safe and comfortable all year round. So make an informed choice about your windows and doors, and set your own trend.

# EVERY DESIGN IS INDIVIDUAL.

Windows and doors come in a variety of different designs made of different materials and with different glazing options. And each will perform a different role. Some glazing options will leave your indoor living areas brighter and cooler. Some will filter out uncomfortable glare. Others will improve your home's energy efficiency, reducing your reliance on artificial heating and cooling. Then there are high security options. It's just a matter of choosing the right combination for you.



# FINDING THE BEST GLASS FOR YOU.

Every home design brings its own unique set of requirements and challenges. One of the most significant decisions you'll have to make (and early on the process, too) is selecting your windows and doors.

Before choosing, there are a lot of factors to take into consideration, for example your local climate, and your home's location and orientation. And remember, depending on their position, different windows and doors often demand different levels of performance. So where to start?

## Understand your performance requirements.

First you need to understand the performance requirements for each of your windows and doors to achieve your whole house rating. Your architect, builder or energy rater will provide the performance criteria of your windows and doors typically as follows:

**U Value** – Measures the temperature which is transferred or flows through a window or door. For example, how effective is it at keeping the heat or cold in or out. A lower U Value indicates better insulation properties.

**SHGC** – Measures the ability to reduce heat generated by sunlight. The lower the SHGC number, the better the glass is at keeping the sun's heat out of the house. Likewise, in a cold climate, the higher the SHGC number, the more natural warmth will occur.

## COMFORT – PAGE 8 & 9

- Maximum natural light
- Warmer house in winter
- Cooler house in summer
- Less reliance on artificial heating and cooling
- Improved overall comfort
- Ventilation
- Glare control

## SERENITY – PAGE 10 & 11

- Reduced external noise
- Retreating from outside world
- Relaxed interior atmosphere

## Choosing your window and door frames.

Next, you'll need to choose your window and door frames based on your home's design, window and door size requirements and the performance criteria your architect, builder or energy rater has specified.

The material of your window and door frames will impact your home's overall comfort levels, acoustics and energy efficiency. As an example timber is a natural insulator and therefore the best performing from an energy perspective. There are 3 material options: timber, aluminium, and a hybrid of aluminium and extruded rigid polymer.

## Choosing your glass.

Lastly, complete your window and door specifications by considering what's important to you. A range of glass options is available to improve the comfort, acoustics, security and privacy around your home.

## SECURITY – PAGE 12 & 13

- Feeling safe and secure
- Protecting against break-ins
- Reducing injury risk due to broken glass

## PRIVACY – PAGE 14 & 15

- Block prying eyes
- Control glare
- Control UV damage



# COMFORT

Australia has some of the harshest sunlight in the world. Maintaining a comfortable indoor environment is difficult, when temperatures rise and fall during the day and between seasons. To improve your overall comfort and wellbeing, we offer a range of glazing options which allow you to improve your home's insulation, reducing both your carbon footprint and your energy consumption.



## Double glazing

Double glazed units are made by filling a space between two pieces of glass with air or gas, creating the most energy efficient windows and doors available.

With double glazed windows and doors, your home will have fewer cold spots and drafts, keeping your living space comfortable all year

round and reducing the need for artificial heating and cooling.

Double glazing can also eliminate condensation that damages timber frames, architraves or flooring.

Thanks to their thermal efficiency, they give architects and designers the freedom to achieve larger openings while still achieving the required energy star ratings.

## Low E glass

Low E glass has a transparent low emissivity coating that reflects heat while still allowing in maximum light, helping keep your home cooler in summer and warmer in winter.

By blocking the sun's harmful UV rays, laminated Low E glass also reduces fading on furniture, carpet and curtains.

Low E glass allows large window openings that meet energy star ratings.

Laminated and single glazed options are available and it can also be double glazed for increased insulation.

Note: Low E glass can appear hazy in certain conditions.



## Toned glass

Toned glass significantly reduces the sun's heat and glare, making it perfect for Australia's extreme summers.

The darker the tint, the more heat it absorbs, reducing the need for artificial cooling and, in turn, your energy consumption.

Toned glass is a great choice for unshaded windows or applications where the ideal window position is unachievable.

There are grey, bronze and green options available, with grey offering the best performance. But before choosing a colour, consider the look and feel as part of your overall design.



## Standard clear glass

Standard glass is for applications without significant thermal, security or noise reduction requirements.

It provides unparalleled clarity, high transparency and excellent light transmission.



## SERENITY

In busy urban environments, noise is constant. There is an increasing need to reduce unwanted noise from road traffic, trains and aircraft to create a more comfortable living environment, promote healthier sleep, reduce stress, and improve concentration. By choosing an appropriate glass for your specific location, you can significantly reduce the amount of ambient noise that penetrates your home.



### Double glazing

Where energy efficiency and acoustics are both required, double glazing can be used to reduce noise. The wider the space between the two sheets of glass, the greater the sound improvement. Sound Transmission Class is a single number rating for glass's efficiency in reducing noise transmission. Expressed in decibels, the larger the number, the greater the sound reduction.

### Thick glass

The further sound has to travel through glass, the more likely it is to dampen the sound waves. So thicker glass is often the best for reducing low frequency sounds like traffic and neighbourhood noise.

### Laminated glass

Featuring two panes of glass with an interlayer between them, laminated glass dampens more vibrations than single glazed glass. Even though laminated glass is constructed using two panes of glass, it's virtually indistinguishable from ordinary glass. An acoustic laminate with a special sound dampening interlayer is also available, providing the sound dampening properties of much thicker glass. Laminated glass can be used for security, noise control and UV reduction.

# SECURITY

If safety and protection are priorities, we offer a wide range of performance glass options to meet your requirements. There are two types of Grade A safety glass available. Grade A safety glass is harder to break and offers greater security against accidental injury, attempted break-ins and severe weather conditions.



## **Toughened glass**

Heating and rapid cooling creates glass that looks like standard glass. If broken, however, toughened glass fractures into small particles, significantly reducing the risk of injury. It's often used in low level glazing, internal and external glass doors, showerscreens and balcony balustrades. Toughened glass also withstands temperature differentials of approximately 250°C, making it useful in bushfire applications.

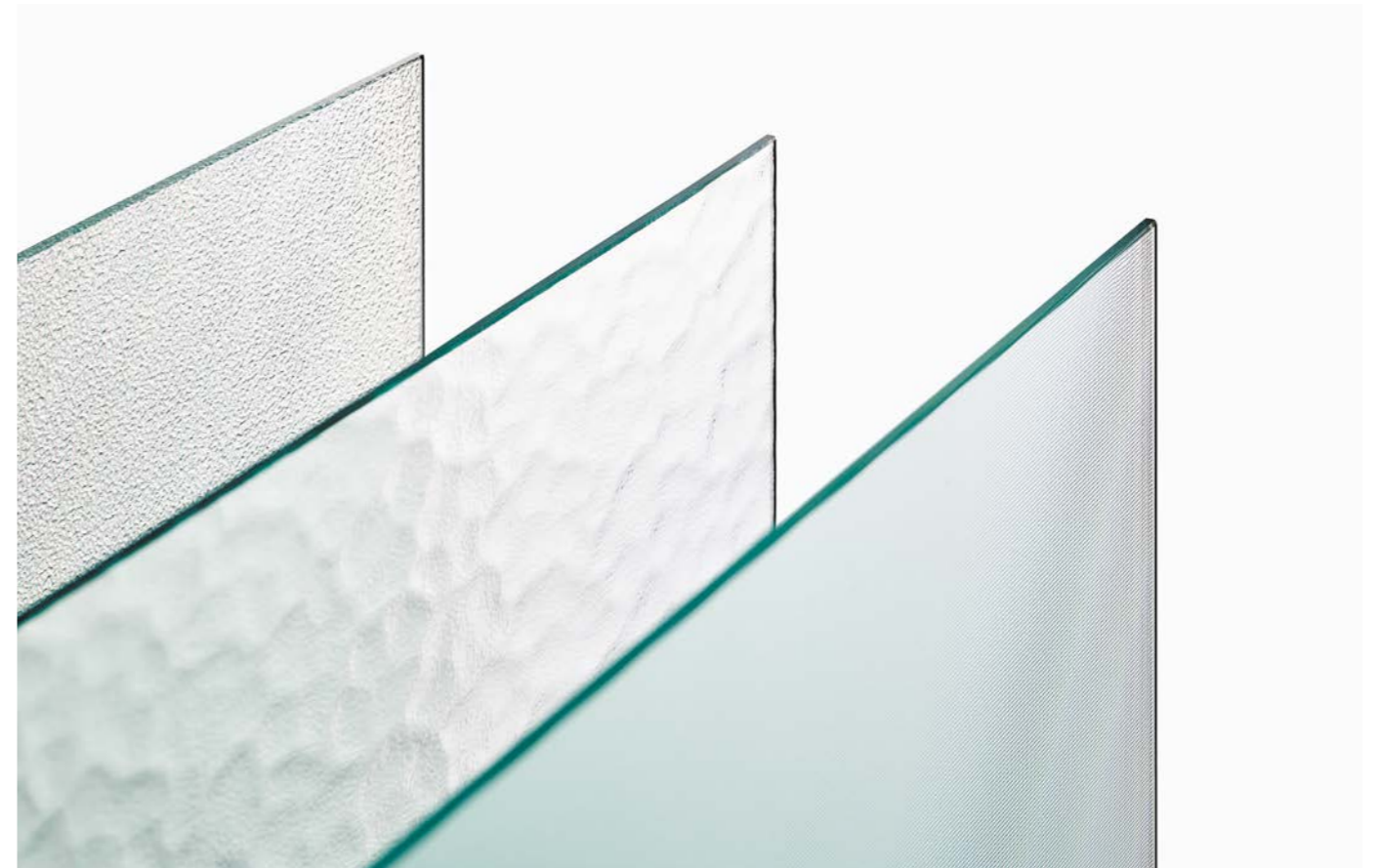
## **Laminated glass**

Laminated glass is where two sheets of glass are bonded with a clear vinyl interlayer. When subjected to impact, the interlayer means the glass remains intact and resists penetration. It will also stay in situ if broken. Depending on the level of security required there are different types of laminated glass available.



# PRIVACY

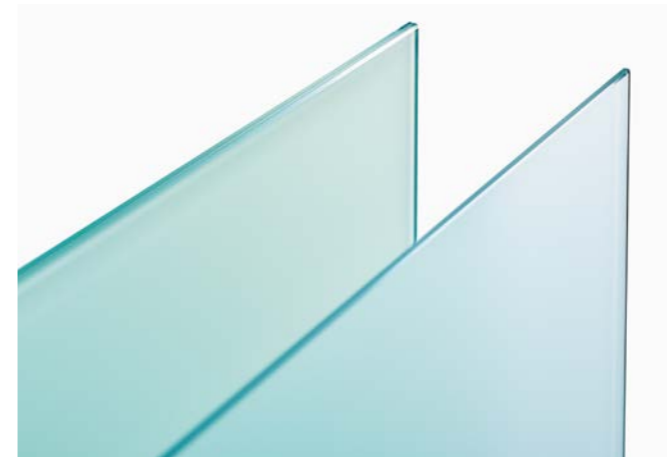
The privacy range of glazing options allows for high level light transmittance while obscuring the view from outside. Different levels of obscurity are available and the range can be toughened or laminated to provide Grade A safety. Ideal for bathrooms, bedrooms, front entry doors or any area you want to block from prying eyes.



## Textured glass\*

Great for light diffusion, privacy and as a decorative feature, textured glass

can be laminated or toughened for Grade A safety glass. Three options: Satinlite, Cathedral, Spotswood.



## Translucent

Laminated crisp white frosted look, the interlayer provides the effect. Grade A safety glass.

## Acid etched

Acid etch has a translucent satin matte finish. Can be toughened for Grade A safety glass.



## Printed glass\*

Any pattern, texture or image can be printed directly onto the glass surface. Once printed, the glass is then toughened with the ink fusing permanently to its surface. The finished product is UV stable for reduced fading and discolouration,

and is also scratch resistant. Printed glass can be laminated, painted or even double glazed.

Note: The colour gamut does not offer magenta or cyan, so colour shifts can occur during printing.

\*The availability of textured and printed glass options vary by state.





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