



Low-E Glass

There is more than the eye can see!

Glass is no longer just glass. There are a huge variety of options to meet your needs.

As Australia moves forward with the new NCC (National Construction Code) and its increased energy efficiency requirements, you can be prepared with our Low-E Glass options.

Walshs Low-E Glass is designed to meet the highest performance and quality standards and will exceed all your expectations.

What is Low-E Glass

Low-E stands for Low Emissivity which refers to its effectiveness in emitting energy as thermal radiation or heat. Low-E Glass is specifically designed to reduce solar heat gain and improve thermal insulation.

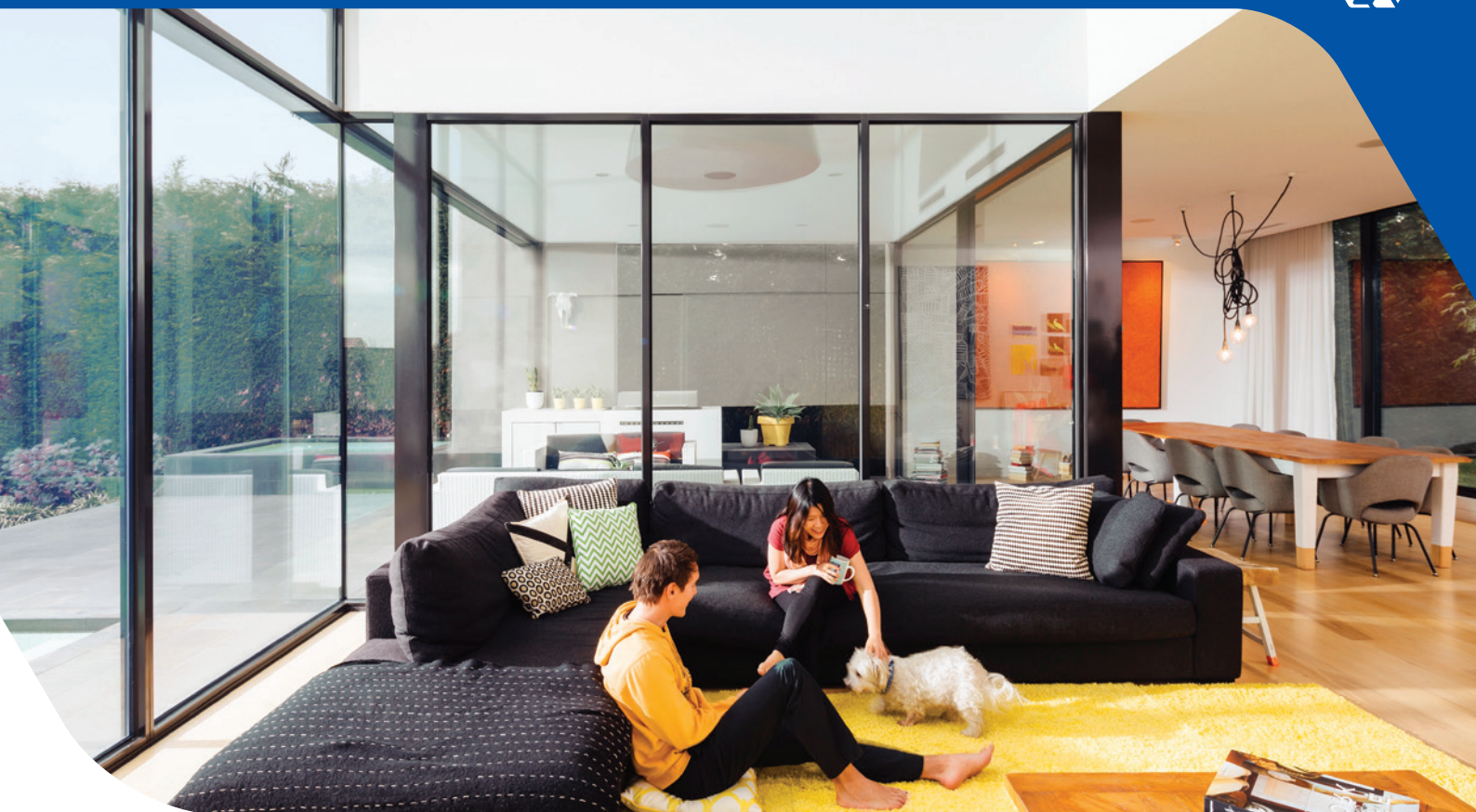


Insulation



Solar control

- ✓ **Exceptional quality**
Leading design, using state of the art technology.
- ✓ **Outstanding performance**
Offers reduced solar heat gain (SHGC) and improved thermal insulation (UValue).
- ✓ **Reduced ecological footprint**
Minimises energy consumption and costs.



Two types of Low-E Glass

Hard coat or Soft coat – What's the difference? Which one do I need?

Hard Coat Low-E Glass

Hard coat glass uses metallic coatings that is applied to float glass during the manufacturing process while the glass is still hot. The Indium Tin Oxide coating is fused onto the glass, becoming part of the glass material. One of the significant benefits of hard coat Low-E glass is that it can be used in single glazing, with the coating exposed on the inside of the building and protected from outside elements.

Coated glass cannot be cleaned like standard glass without a coating, so you'll find cleaning instructions for hard coat Low-E glass on our website,

In certain daylight conditions, a haze may be visible on hard coat Low-E glass. This is a characteristic of the coating's interaction with light and not an issue with the glass itself.

Product options using hard coat Low-E glass include Walshs Performance Low-E and Walshs Twinseal™ Performance. Overall, hard coat Low-E glass is a durable and cost-effective solution that provides improved energy efficiency and reduces glare while maintaining transparency.

Soft Coat Low-E Glass

Soft coat Low-E glass has a metallic coating that's applied after the glass has cooled down. The process involves depositing atomic particles of metals and metal oxides onto the float glass surface. The primary metal used is silver (Ag), which offers better performance than hard coat Low-E. However, the silver coating needs protection from the environment and must be enclosed within a Double-Glazed Unit (DGU). Soft coat Low-E glass cannot be used as a single-glazed product or have its coating exposed.

The benefits of soft coat Low-E glass include improved energy efficiency, larger window sizes, and reduced haze. Available only in double-glazed units, they're easy to clean and offer superior performance.

Product options using soft coat Low-E glass include Walshs TwinSeal™ Performance Plus, Walshs TwinSeal™ Performance Platinum, Viridian LightBridge next™ and Viridian PerformaTech™. They're among the highest performing products available in the market.

LightBridge™

LightBridge^{next}™

Walshs Twinseal™
Performance
Platinum

Take a look at our product range to find the right product and options for you.