

# SmartGlass™

Active insulation technology

## Why would you ever use ordinary glass again?

Introducing affordable energy efficient glass with active insulation technology from Westal - your Viridian Licensed Smartglass™ Processor.



**westal**  
windows  
PTY LTD



make the Smart choice



**SmartGlass™**  
Active insulation technology

Up to  
**39%**  
better insulation  
than ordinary  
glass†

## Introducing SmartGlass energy efficient glass.

Like wall and ceiling insulation, SmartGlass is protecting Australian families from the extremes of heat and cold while reducing their power bills. So now everyone can enjoy their views, natural light and a much more comfortable living environment throughout the year.

### > 24/7 active insulation technology.

In summer, SmartGlass actively reduces the amount of solar heat that enters a home. In winter, it works in reverse, reflecting warmth back inside the home.

### > Boosts the energy Star Rating of a home.

SmartGlass is so advanced it can help homes achieve up to an extra Star Rating in energy efficiency when compared with ordinary glass.\*

### > Saves money on heating and cooling.

SmartGlass is an affordable upgrade from ordinary glass that delivers superior insulation, a more comfortable home and energy savings all year round.

### > From a name you can trust.

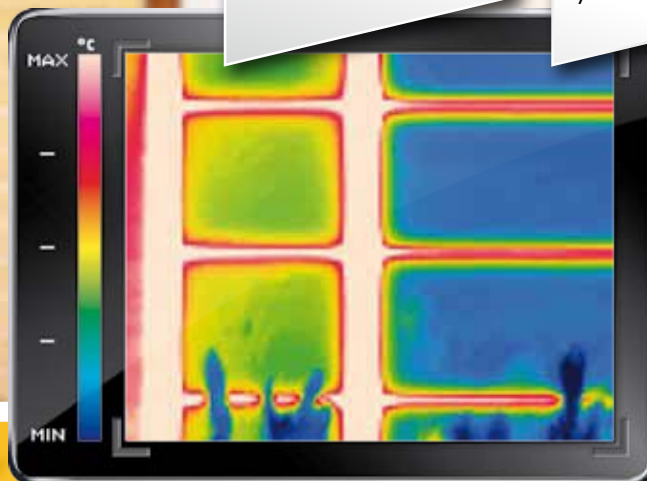
SmartGlass comes with some of the best warranties in the business and is just one of Westal's range of energy efficient glass products, specially selected for Australia's harsh climates.

#### SmartGlass™

Acts like insulation reflecting heat back outside

#### Ordinary glass

Lets the summer heat in through your windows



Actual thermal image taken with an infrared camera.

With a thermal camera, heat and cold is now visible to the naked eye and colour tells the temperature story. Blue areas on the glass are cool while green and yellow areas are warm. You can see how ordinary glass lets summer heat pass through the window unhindered, while SmartGlass captures the heat and reflects it back outside keeping homes cooler in summer.



make the Smart choice

# Westal - helping you select the right SmartGlass for the job.

All SmartGlass incorporates the advanced active insulation coating. There are four colours of SmartGlass available, each providing increasing levels of solar protection (SP).

Speak with our Sales staff to determine the SmartGlass most suited to your home's location, climate and window orientation.

## SmartGlass SP10 Clear Polaris



SP10 is a clear glass for cooler climates or shaded windows where passive solar heating is desired.

It provides improved insulation performance in summer and winter, while still allowing the benefit of using the winter sun for passive solar heating.

Excellent daylight for bright, healthy living spaces.

Lowest solar protection of the range.

## SmartGlass SP30 Neutral Panoramic



SP30 has a neutral light grey colour and provides improved solar protection.

The neutral light grey colour means that views remain naturally coloured while reducing heat entering the home.

A good 'all-round' choice for mixed temperate climates.

## SmartGlass SP40 Green Oasis



SP40 delivers high solar protection yet abundant natural daylighting.

This choice of SmartGlass is ideal for hot climates and demanding orientations.

Views and natural light can be maintained while significantly reducing heat load on a home.

The green of Oasis works particularly well with garden and water views.

## SmartGlass SP50 Grey Stellar



SP50 offers the highest level of solar protection in the SmartGlass range.

Suited to Australia's hottest climates, it significantly reduces glare and radiant heat entering a home.

Stellar's grey colour combined with the SmartGlass coating provides outstanding performance in a stylish grey tone.

### SP10 Clear

- > Insulation
- > For cooler climates and shaded windows where passive solar heating is desirable

### SP30 Neutral

- > Insulation
- > For warmer climates where a balance of solar control and insulation is beneficial

### SP40 Green

- > Insulation
- > Balances high solar protection with natural daylighting for demanding orientations or hotter climates

### SP50 Grey

- > Insulation
- > Highest solar protection of the range for hotter climates and glare control

## Description

SmartGlass is a range of single glazed toughenable Low E products offering insulation and a choice of solar protection with low reflectivity ideally suited to the demands of Australian residential applications. SmartGlass provides excellent performance and versatility for single glazed windows.

SmartGlass has been selected for Australian climate conditions to assist in achieving energy Star Ratings for home designs, whilst still capturing natural light and views. Manufactured using hardcoat Low E coating for excellent durability and ease of processing and handling.

## Features and Benefits

- ◆ Low E insulation with a choice of solar control performance for residential applications
- ◆ Provides a straight forward energy efficient alternative to ordinary glass
- ◆ Durable pyrolytic Low E coating ideal for single glazing
- ◆ Low reflectivity
- ◆ Can be toughened for Grade A Safety glass
- ◆ Suitable for most standard single glazed window frames



As you can see in this actual thermal image, SmartGlass reflects heat back into the room, helping keep occupants warm when it's cold outside. Compare this to the ordinary glass window, where heat freely escapes to the outside.

## Performance data

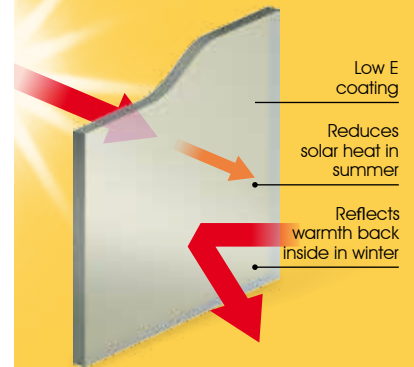
Product†	Visible trans. %	Visible reflex.% (external)	Visible reflex.% (internal)	Solar trans. %	Solar reflex. %	UV trans. %	U Value (W/m <sup>2</sup> C)	Shading coeff.	SHGC
SP10 Clear – Polaris	81	11	12	65	10	48	3.6	0.80	0.69
SP30 Neutral – Panoramic	63	9	10	45	8	41	3.7	0.62	0.53
SP40 Green – Oasis	61	8	10	28	6	12	3.7	0.47	0.40
SP50 Grey – Stellar	30	5	8	23	6	13	3.7	0.42	0.36

†6mm glass thickness.



## Energy

### SmartGlass™



## Applications

- ◆ New homes
- ◆ Residential renovations
- ◆ Replacement and retrofit glazing

## Maximum sizes

- ◆ SP50 Grey 3302×2438mm
- ◆ SP10 Clear, SP30 Neutral and SP40 Green 5100×3210mm

## How to specify

- ◆ **Select glass name**  
SmartGlass
- ◆ **Select thickness – process**  
4\* or 6mm – annealed  
4\* or 6mm – toughened  
\*Grey not available in 4mm
- ◆ **Select colour**  
Refer to product range chart

## Product range

Product	Thickness (mm)	
	4	6
SP10 Clear	◆	◆
SP30 Neutral	◆	◆
SP40 Green	◆	◆
SP50 Grey		◆



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## GLAZE THIS SIDE OUT

Congratulations on your purchase of  
**Westal SmartGlass™** – the smart choice  
in energy efficient glass.

- > Australia's leading supplier of hardcoat Low E glass providing solar protection and insulation for your windows
- > Provides up to 39% greater insulation than ordinary glass
- > Hardcoat technology fused to the molten glass for ultimate surface durability
- > For cleaning and care visit [westal.com.au](http://westal.com.au)



For more details or for a **FREE** quotation, contact us today:

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e: [sales@westal.com.au](mailto:sales@westal.com.au)

**[www.westal.com.au](http://www.westal.com.au)**

Smartglass is a registered trade mark of CSR Viridian Glass.



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