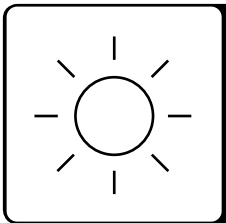
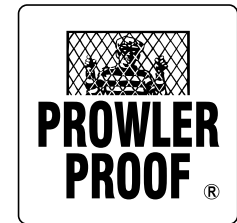


All you need to know...



Prowler Proof energy efficiency



Window Energy rating product guide

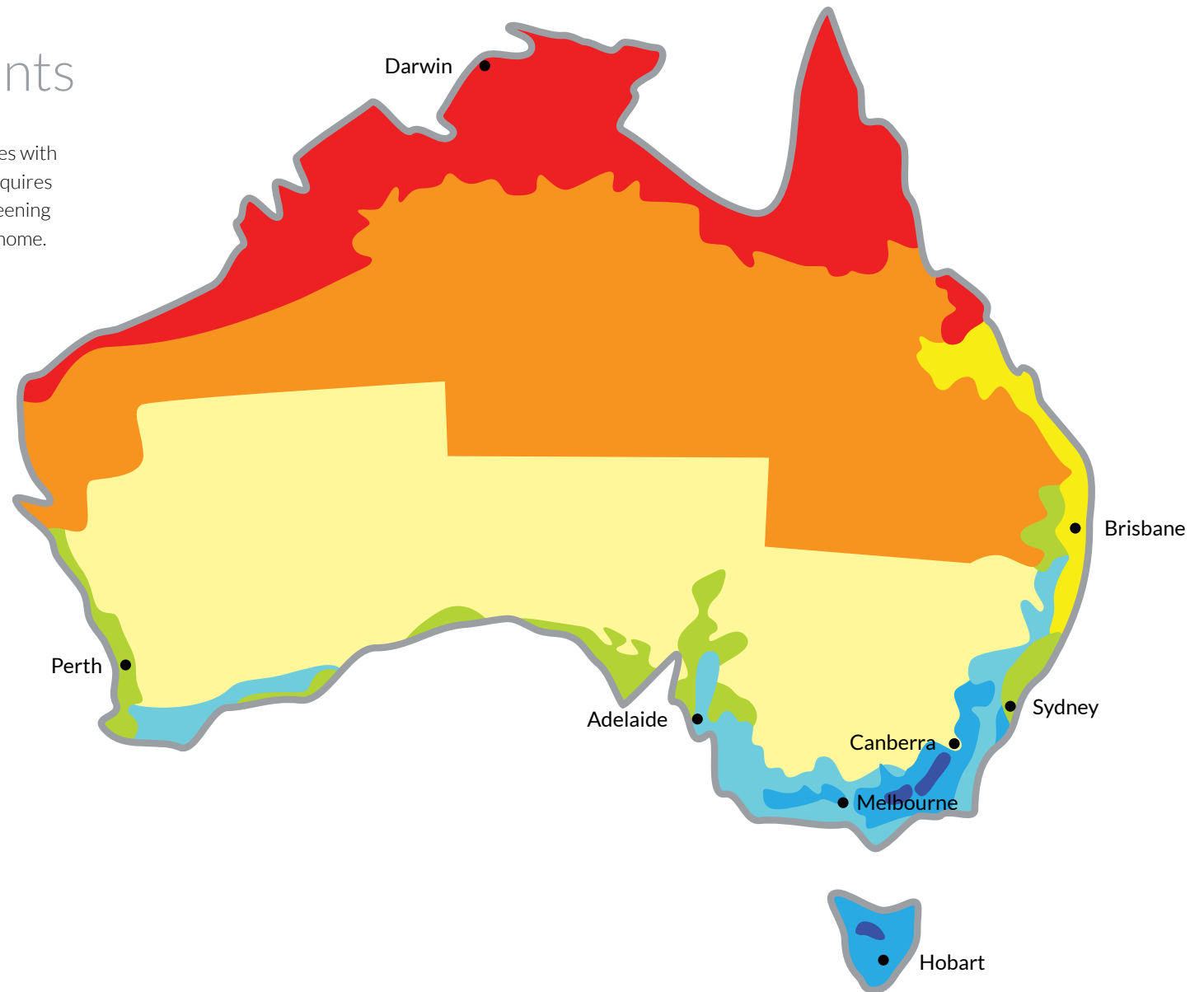
PRODUCT	WERS Compliant	
	RESIDENTIAL	COMMERCIAL
ForceField®	✓	✓
Protec	✓	✓
Guardian®	-	-
Diamond	-	-
Heritage	-	-
Insect	-	-

✓ Product meets compliance for WERS | - Product has not been tested

Where we live counts

WERS has mapped Australia into three climate zones with eight specific zones to determine if your location requires cooling or heating. You can then select the best screening product to help improve cooling or heating in your home.

PRODUCT	Climate Zones		
	HOT	MIXED	COLD
Zone 1			
Zone 2			
Zone 3			
Zone 4			
Zone 5			
Zone 6			
Zone 7			
Zone 8			



Minimising energy use

Placing a screen on windows and doors improves energy efficiency in two main ways.

- 1) By reducing the amount of ambient heat or cold entering into or escaping from a home. This is known as the "U" value.
- 2) Screens create shade for direct sunlight entering into the home. This is known as the solar heat gain coefficient (SHGC).

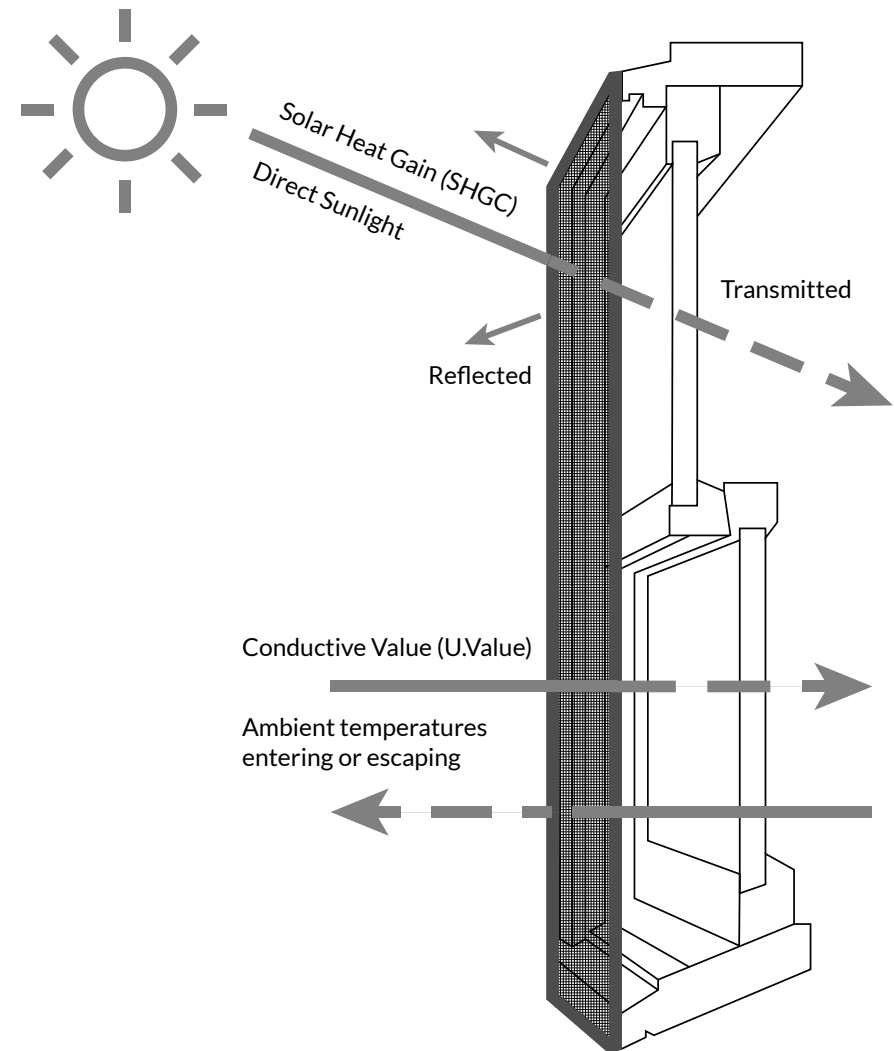
There are of course other scientific factors involved however these main two factors result in creating the largest effects for heating or cooling your home.

The table below indicates how Prowler Proof ForceField® or Protec security screens will help lower energy consumption in your home. You can add up to three stars and increase the efficiency in your home and help lower power bills.

PRODUCT	ForceField® Screen	
	COOLING	HEATING
3mm clear	★★★ 45% improvement	★★ 7% improvement
5mm toned	★★★ 49% improvement	★☆ 4% improvement
6.38mm laminate	★★★★ 55% improvement	★★☆ 17% improvement
3mm/12/3mm clear DGU	★★★☆ 56% improvement	★★ 21% improvement

PRODUCT	Protec® Screen	
	COOLING	HEATING
3mm clear	★★☆ 44% improvement	Nil improvement
5mm toned	★★★ 48% improvement	Nil improvement
6.38mm laminate	★★★☆ 55% improvement	★★ 9% improvement
3mm/12/3mm clear DGU	★★★☆ 55% improvement	★★ 14% improvement

Note: All figures in the above table show an improvement compared to a generic aluminium window with 3mm clear glass and no screens in a residential application.





Prowler Proof ForceField® and Protec products are tested and compliant to the residential and commercial Window Energy Rating Scheme (WERS). The National Construction Code of Australia rates buildings to help lower energy consumption. The more stars the better the improvement and lower the energy use will be.

WERS has categorised Australia into three regions/zones:

- Hot Climate Zones
- Mixed Climate Zones
- Cold Climate Zones

Prowler Proof ForceField® and Protec screens provide an improvement in all three climate zones for cooling or heating. You can easily lower your energy consumption by installing Prowler Proof ForceField® or Protec screens to your home.

Nice to know...

Take your install to the next level

Annealed Glass

The most basic glass product. It is the common glass that tends to break into large, jagged shards.

AS2047-2014

Windows and externally glazed doors in buildings

AS1288-2006

Glass in buildings

AWA

The Australian Window Association.

BCA

The Building Code of Australia.

Certifier

Certifiers inspect construction and subdivision work and issue certificates to confirm the work meets legislative requirements and the Building Code of Australia.

DGU

Double Glazed Unit

Laminate Glass

Two pieces of annealed glass held together by a plastic adhesive layer. For example a 6.38 laminate glass pane is made up of 3mm annealed glass, 0.38 plastic adhesive layer and 3mm annealed glass.

NCC

The National Construction Code of Australia.

SHGC

A performance based measure for how well a product blocks direct sunlight.

Toughened Glass

A safety glass, it is very tough and tends to break in tiny pieces.

“U” Value

A performance based measure for the heat entering a building.

WERS

The Window Energy Rating Scheme and provides a scientifically based system for assessing energy performance on windows and doors.

Imagine the expense and carbon emissions that can be saved by reducing the energy that you use to heat or cool your house!

*“Windows can severely impact the heating and cooling loads of a building. Between 46%-61% of a home’s heating energy can be lost and between 79%-86% of its heat gained through windows. Improving their thermal performance increases comfort and reduces energy costs and Australia’s greenhouse gas emissions” - AWA *1*

*“Approximately 3,000MJ of energy is saved per star, mostly cooling - worth about \$150-\$250 and up to 0.35t of GHG. (Based on Brisbane, 240 sq/m house)” - AWA *2*



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