

NSW & SA

TREND[®]
WINDOWS

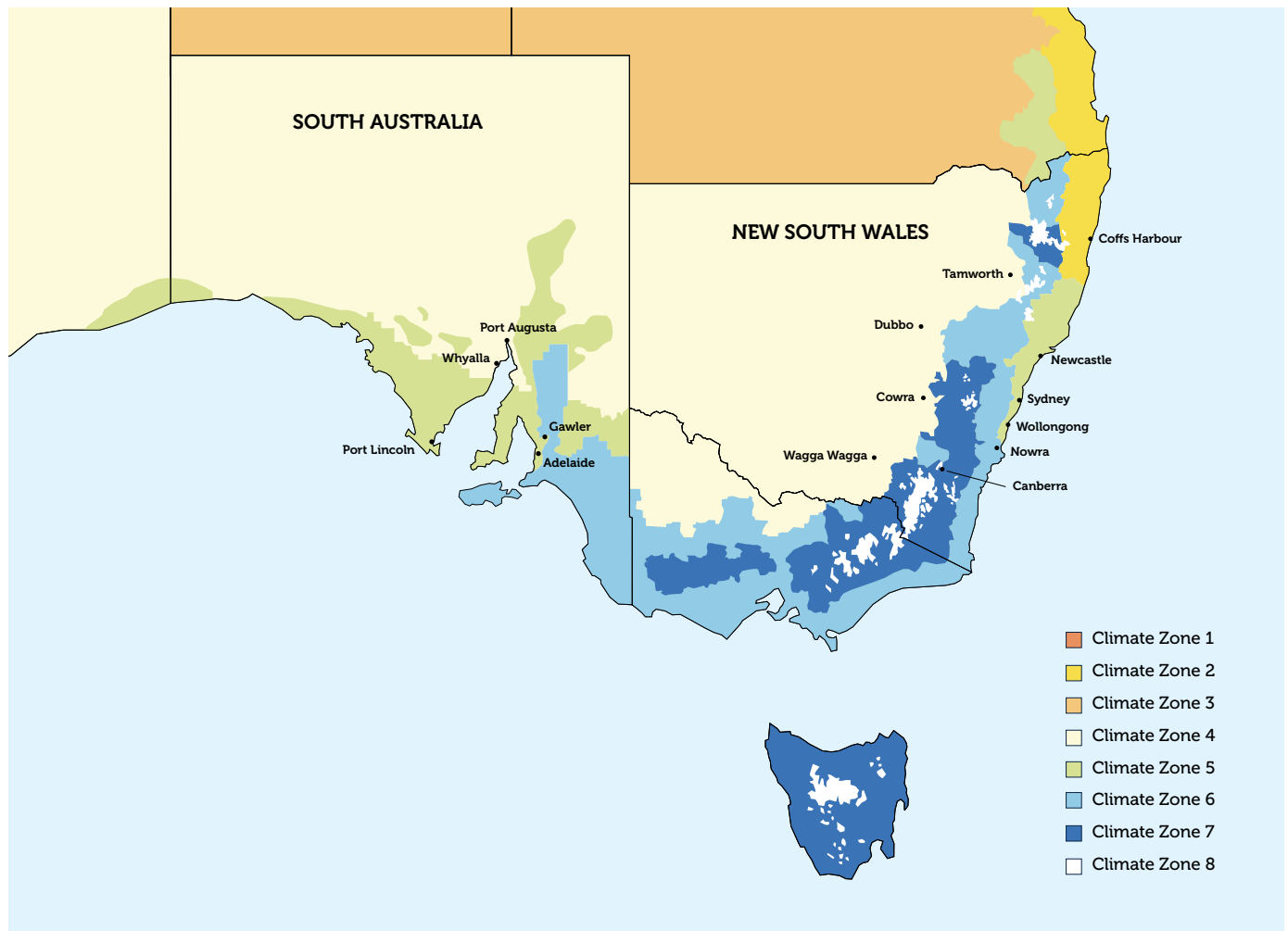
& DOORS

WINDOW AND DOOR SPECIFICATION FOR 7-STARS

ACHIEVING ENERGY EFFICIENCY

What are the steps you can take to improve your Window and Door energy performance?

When it comes to evaluating the performance of your Windows and Doors, there are several factors to be considered when deciding the best options for keeping your home thermally comfortable. Glazing has the greatest impact and which glass is best depends on your climate and whether more energy is used heating or cooling your house: 'Climate zones' are defined by the Australian Building Codes Board, referenced in the National Construction Code and they are used in energy rating a home.



The above map highlights the different climate zones you'll find throughout New South Wales and South Australia.

Source: abcb.gov.au

New South Wales and South Australia have multiple climate zones:

This document deals with Sydney and surrounds, including Wollongong, Hunter and Port Macquarie regions and coastal areas of SA encompassing Ceduna and Adelaide and some hinterland areas north of Whyalla and east of Adelaide (Climate zone 5). As well as inland NSW and SA (Climate zone 4). These regions are considered warm temperate climates, requiring a balance between reducing heating loads in winter and cooling loads in summer. For these climate zones it is important that your windows and doors have both a low U value (for better insulation) and a low Solar Heat Gain Co-efficient (SHGC), to prevent the heat from the sun entering your house.

For Northern NSW, the region above Port Macquarie from the coast to the border of QLD (Climate zone 2), please refer to our QLD guide. For the ACT, and SA/NSW Alpine regions (Climate zone 6, 7 and 8), please refer to our VIC and ACT guide.

Some options for improving your Energy Efficiency through glass are as follows:



Good

SINGLE GLAZED - LOW E NEUTRAL

A good upgrade from Clear Single Glazing, the glass is coated in thin layers of metallic oxide when manufactured, which reflect radiant heat helping to maintain a cooler interior.



Better

DOUBLE GLAZED - CLEAR

For even better performance for difficult orientations, or house designs, you can choose clear double glazing which provides a significant improvement in the U value helping to retain heat in cooler months.



Best

DOUBLE GLAZED - LOW E CLEAR

The best performing glass to achieve improved energy efficiency is a double glazing with Low E glass. This combination will provide both heating and cooling improvements.



While performance will be a very important factor in determining what glass you ultimately choose, other considerations such as cost, window colours, availability and lead times may influence your decision. There are many other options available to suit a range of requirements, please speak to your Trend representative for more information.

NSW and SA are classified as mixed climate zones and require a balance between reducing heating loads in winter and cooling loads in summer to keep occupants thermally comfortable.

Colour choice can also play a part in achieving Energy Efficiency in conjunction with U Value and SHGC; Medium colours are preferable to reflect the radiant heat away from the inside the home.

In addition to good design and orientation, the products and glazing we recommend below will assist in achieving 7-stars for your building.

WERS Code	Option	Glass Type	U Value	SHGC	Reduction % of U Value	Reduction % of SHGC
Synergy Awning Window						
TND-002-007	Standard	Clear Single	6.4	0.63	-	-
TND-002-008	Good	Low E Neutral Single	4.9	0.41	23%	35%
TND-002-015	Better	Clear IGU	4.1	0.57	36%	10%
TND-002-019	Best	Low E Clear IGU	3.3	0.45	48%	29%
Synergy Sliding Window						
TND-001-007	Standard	Clear Single	6.3	0.69	-	-
TND-001-008	Good	Low E Neutral Single	4.7	0.45	25%	35%
TND-001-015	Better	Clear IGU	4.2	0.58	33%	16%
TND-001-021	Best	Low E Clear IGU	3.2	0.46	49%	33%
Synergy Sliding Door						
TND-017-005	Standard	Clear Single	6.3	0.71	-	-
TND-017-025	Good	Low E Neutral Single	4.6	0.45	27%	37%
TND-017-009	Better	Clear IGU	3.8	0.63	40%	11%
TND-017-013	Best	Low E Clear IGU	2.9	0.48	54%	32%
ThermaRes Awning Window						
TND-102-001	Better	Clear IGU	3	0.55	-	-
TND-102-021	Best	Low E Clear IGU	2.2	0.42	27%	24%
ThermaRes Sliding Window						
TND-104-001	Better	Clear IGU	3.2	0.65	-	-
TND-104-022	Best	Low E Clear IGU	2.3	0.5	28%	23%
ThermaRes Sliding Door						
TND-108-001	Better	Clear IGU	2.8	0.64	-	-
TND-108-042	Best	Low E Clear IGU	1.9	0.5	32%	22%

Please note: ThermaRes thermally broken products are only available in Double Glazing, therefore the "Standard" option has been omitted, and the "Good" option has been substituted for Clear IGU.



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