

Window and Door Specification for 7 Stars

LET'S RAISE **THE BAR.**

7 Star energy efficiency guide for NSW & SA

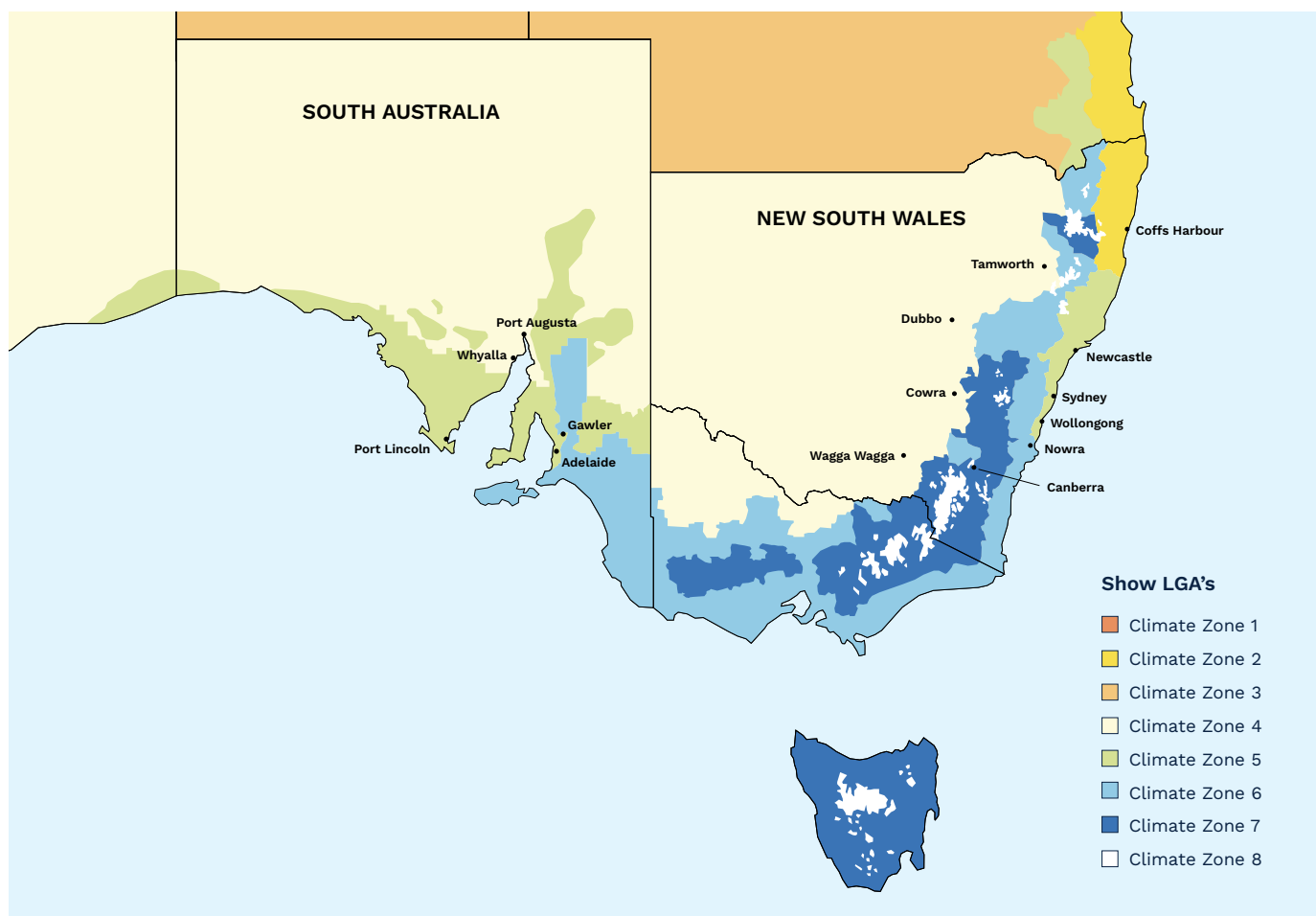


ACHIEVING ENERGY EFFICIENCY

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

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, your windows and doors must 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 from 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 NSW Alpine regions (climate zones 6, 7 and 8), please refer to our VIC and ACT guide.

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; Darker colours are preferable to capture and transfer radiant heat into the interior of the dwelling.

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

Product Type	WERS Code	Option	Glass Type	U Value	SHGC	Cooling	Heating
Residential Awning Window	STG-002-001	Standard	SG Clear	6.4	0.64	★	★★★★↓
	STG-002-013	Good	SG Low-E Neutral	5.0	0.42	★★★↓	★★★★★↓
	STG-001-044	Better	DG Clear	4.4	0.57	★★★↓	★★★★★↓
	STG-001-070	Best	DG Low-E Soft Coat	3.1	0.45	★★★★↓	★★★★★↓
Residential Sliding Window	STG-007-001	Standard	SG Clear	6.3	0.71	↓	★★★↓
	STG-007-012	Good	SG Low-E Neutral	4.6	0.46	★★★↓	★★★★↓
	STG-006-042	Better	DG Clear	4.2	0.57	★★★↓	★★★★★↓
	STG-006-068	Best	DG Low-E Soft Coat	3.4	0.45	★★★★↓	★★★★★↓
Alumiere Awning Window	STG-067-001	Standard	SG Clear	6.6	0.63	★★↓	★★★★↓
	STG-067-020	Good	SG Low-E Neutral	5.3	0.42	★★★↓	★★★★★
	STG-068-TBA	Better	DG Clear	4.2	0.57	★★★★★	★★★★★
	STG-068-TBA	Best	DG Low-E Soft Coat	3.4	0.44	★★★★★	★★★★★
Alumiere Sliding Window	STG-065-001	Standard	SG Clear	6.5	0.69	↓	★★★↓
	STG-065-020	Good	SG Low-E Neutral	4.9	0.44	★★★↓	★★★★
	STG-066-TBA	Better	DG Clear	3.9	0.63	★★★★★	★★★★★
	STG-066-TBA	Best	DG Low-E Soft Coat	3.0	0.48	★★★★★	★★★★★
Residential Sliding Door	STG-005-002	Standard	SG Clear	6.2	0.72	↓	★★★↓
	STG-005-011	Good	SG Low-E Neutral	4.5	0.47	★★★↓	★★★★↓
	STG-004-012	Better	DG Clear	3.9	0.60	★★★↓	★★★★★↓
	STG-004-TBA	Best	DG Low-E Soft Coat	2.8	0.44	★★★★★	★★★★★
Alumiere Sliding Door	STG-075-001	Standard	SG Clear	6.1	0.64	★★↓	★★★↓
	STG-075-022	Good	SG Low-E Neutral	4.5	0.41	★★★★↓	★★★★↓
	STG-076-001	Better	DG Clear	3.8	0.58	★★★↓	★★★★★↓
	STG-076-TBA	Best	DG Low-E Soft Coat	3.0	0.48	★★★★★	★★★★★

* SG - Single Glazed; DG - Double Glazed



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