QLD

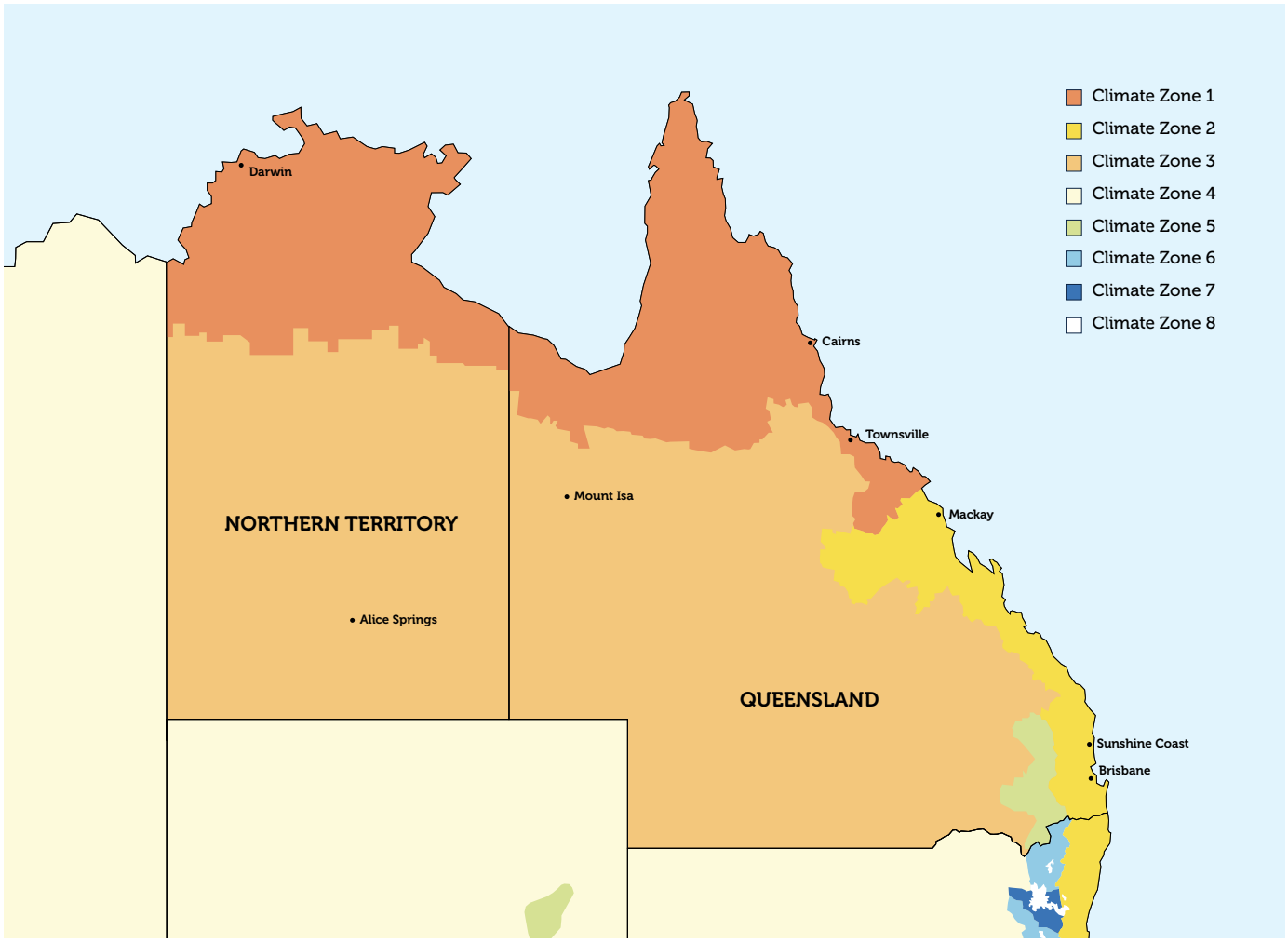
TREND® WINDOWS & DOORS

WINDOW AND DOOR SPECIFICATION FOR 7-STARS

ACHIEVING ENERGY EFFICIENCY

What are the steps you can take to improve your Window and Door performance from an Energy Efficiency standpoint?

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 Queensland. Source: abcb.gov.au

Queensland has multiple climate zones:

This document deals with the Queensland coastal region (Climate zone 2) which is primarily a cooling climate, so it is most important that your Windows and Doors have a low Solar Heat Gain Co-efficient (SHGC), as you want to prevent the heat from the sun entering your house. At the same time, climate zone 2 experiences mild winters, so having windows with a lower U Value is equally important. A lower U Value contributes to energy efficiency by minimising heat loss and reducing the need for heating in cooler seasons. In turn, this lowers energy consumption and associated heating costs.

For the Western region, including Toowoomba and Dalby (climate zone 5), please refer to the NSW guide.

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

Good

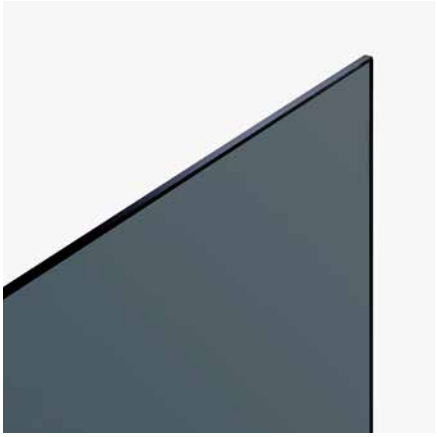
SINGLE GLAZED - LOW E NEUTRAL

A good upgrade from Clear Single Glazing, reducing your SHGC and enabling you to achieve NCC 7-star compliance.

Better

SINGLE GLAZED - LOW E GREY

A single glazed unit with Grey Low E glass. This combination of glass provides superior energy efficiency and will help with compliance for even the most demanding designs or sites.



Best

DOUBLE GLAZED - LOW E GREY

Double glazing with Low E toned glass provides a significant improvement in the U value helping to retain heat in cooler months, and SHGC helping to prevent the heat from the sun entering your house in the warmer months.

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.

To reiterate, Queensland has predominantly cooling climate zones which means that most energy used is to cool the home to keep occupants thermally comfortable.

Colour choice can also play a part in achieving Energy Efficiency in conjunction with U Value and SHGC; Lighter 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 SHGC
Synergy Awning Window					
TND-002-001	Standard	Clear Single	6.5	0.66	-
TND-002-008	Good	Neutral Low E Single	4.9	0.41	38%
TND-002-009	Better	Low E Toned Single	4.9	0.4	39%
TND-002-020	Best	Low E Toned IGU	3.3	0.32	52%
Synergy Sliding Window					
TND-001-001	Standard	Clear Single	6.5	0.73	-
TND-001-008	Good	Neutral Low E Single	4.7	0.45	38%
TND-001-009	Better	Low E Toned Single	4.6	0.43	41%
TND-001-022	Best	Low E Toned IGU	3.3	0.33	55%
Synergy Sliding Door					
TND-017-001	Standard	Clear Single	6.4	0.73	-
TND-017-025	Good	Low E Neutral Single	4.6	0.45	38%
TND-017-007	Better	Low E Toned Single	4.6	0.44	40%
TND-017-014	Best	Low E Toned IGU	2.8	0.34	53%
Quantum Awning Window					
TND-059-001	Standard	Clear Single	6.8	0.56	-
TND-059-022	Good	Low E Neutral Single	5.6	0.37	34%
TND-059-023	Better	Low E Toned Single	5.6	0.27	52%
TND-060-059	Best	Low E Toned IGU	3.9	0.25	55%
Quantum Sliding Window					
TND-078-001	Standard	Clear Single	6.7	0.67	-
TND-078-021	Good	Low E Neutral Single	5.1	0.43	36%
TND-078-022	Better	Low E Toned Single	5.1	0.3	55%
TND-079-057	Best	Low E Toned IGU	3.4	0.29	57%
Quantum Sliding Door					
TND-017-001	Standard	Clear Single	6.4	0.73	-
TND-017-025	Good	Low E Neutral Single	4.6	0.45	38%
TND-017-007	Better	Low E Toned Single	4.6	0.44	40%
TND-017-014	Best	Low E Toned IGU	2.8	0.34	53%

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