Achieving 7-stars in a cooling climate.

Advantage in energy performance



A&L WINDOWS | DOORS

ComfortSmart OPTIMAL

Energy efficiency made easy and affordable.

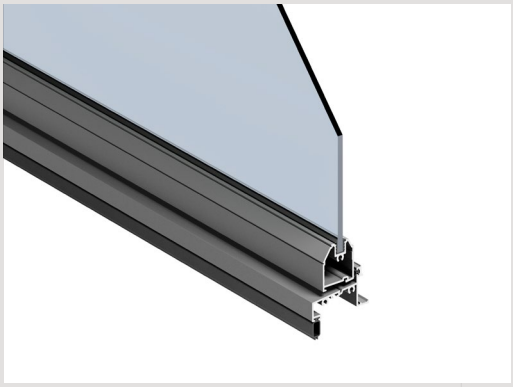
Since May 1, 2024, new homes and building permits in Australia must meet a 7-star energy efficiency rating under the updated NCC 2022 standards.

At A&L, energy efficiency drives our continued research and innovation across our product range. We'll work with you to configure the right glass and frame technologies for your climate.



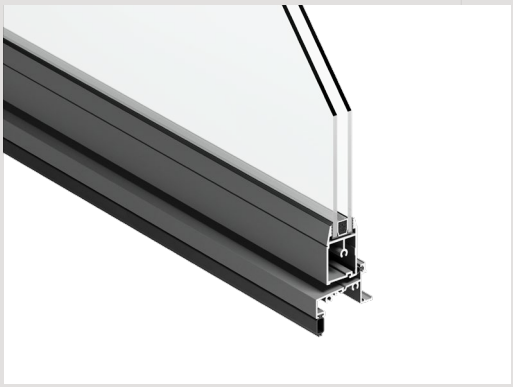
Smart framing

A&L offers our inline reveal as standard for all products, so you can achieve greater energy performance at a competitive price.



Scalable performance

Combine either 'Clear' or 'Neutral' Low-E coatings to your single-glazed windows to reduce heat transfer and achieve increasing energy performance in your home.



Advanced solutions

For Ultimate performance and durability, Double Glazing with a Soft Coat Low-E coating achieves higher Visible Light Transition (VLT) so you can continue to enjoy the benefits of natural light with industry-leading energy savings.

Window manufacturer performance comparison†

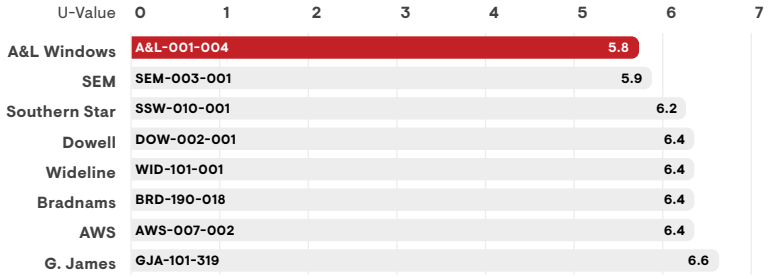
At A&L, we're proud to lead the industry with energy-efficient technologies that set new performance standards. Our Good, Better, Best range offers scalable energy savings by reducing solar heat gain (SHGC) and improving insulation (U-value). These advanced glass options help keep homes cooler and more efficient in cooling climates.



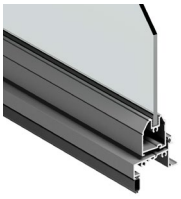
Standard

Residential Awning Window

4mm Clear SG



†Performance comparison based on Standard Residential Awning Frames

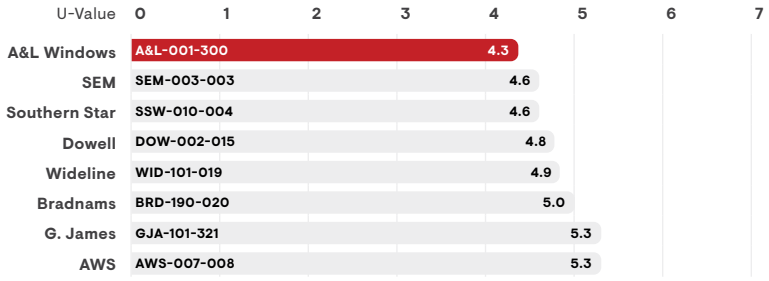


Good

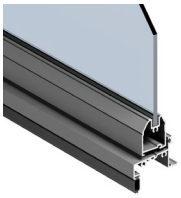
Residential Awning Window

Hard Coat Low-E SG

✓



†Performance comparison based on Standard Residential Awning Frames

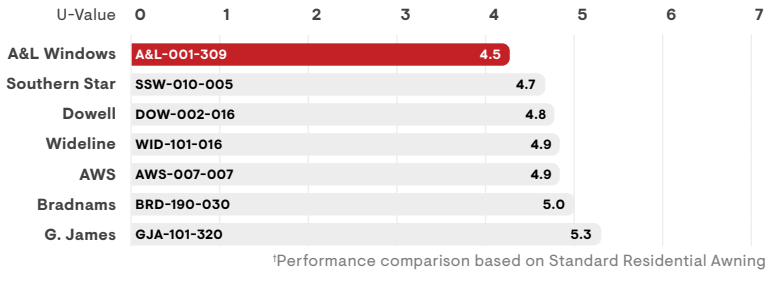


Better

Residential Awning Window

Hard Coat Neutral Low-E SG

✓ ✓



†Performance comparison based on Standard Residential Awning Frames

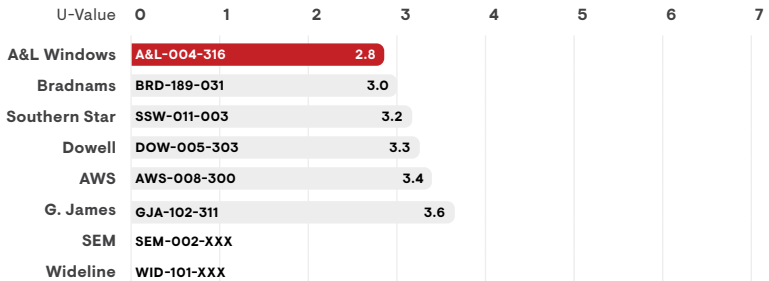


Best

Residential Awning Window

Soft Coat Low-E DG

✓ ✓ ✓



†Performance comparison based on Standard Residential Awning Frames

The data for the U Value comparison was taken from the publicly accessible WERSLink website (werslink.com.au), captured on 1st October 2026. Products included in the comparison closely align with the characteristics of the products being compared: aluminium residential windows (approximately 60mm depth). Each category compares the most similar glass thickness and specs; where the same glass thickness/specs are not available, the closest match is used.

Solutions purpose-built for Queensland

Performance is key when choosing glass, but other things like cost, window colour and lead times are also important. That's why our friendly team can recommend a specific glass type that helps you meet 7 Star compliance, offers good value and can be delivered quickly. We'll work with you to configure other glass options if needed.

Our offering		What's included	U-Value	SHGC Range
Good ✓	**Standard & Boutique** • SG Clear Hard Coat Low-E	Our **Good** upgrade from A&L's Standard Clear Single Glazing is Clear Hard Coat Low-E. The glass is coated in thin layers of metallic oxide when manufactured, which reflects radiant heat helping to maintain a cooler interior.	4.3	0.55
Better ✓✓	**Standard & Boutique** • SG Neutral Hard Coat Low-E	For even **Better** performance in more demanding climate zones, orientations or house designs, you can apply a 'Neutral' Hard Coat Low-E coating to your glass, providing a significant improvement in reducing your SHGC.	4.5	0.42
Best ✓✓✓	**Standard & Boutique** • DG Soft Coat Low-E	The **Best** performing glass to achieve improved energy efficiency is a Double Glazed Soft Coat Low-E. This combination will provide best energy efficiency and will help with compliance for even the most demanding designs or sites.	2.8	0.26

Applying this to your build

For the standard single-storey and double-storey home, it's easy to choose from our **Good, Better and Best** solutions. Alongside design and orientation, the products and glazing below will assist in achieving 7 stars for your building.

SG — Single Glazed Unit
DG — Double Glazed Unit
SC — Soft Coat Low-E
HC — Hard Coat Low-E



Single Storey Detached

Less than 27% glazing ratio



Double Storey Townhouse

Less than 20% glazing ratio



Double Storey Detached

Less than 28% glazing ratio

		Awning						
		AW	FX	SW	SD			
Good	Standard & Boutique	0.55	0.64	0.64	0.61	SG Clear HC Low-E 7+ Uv & 0.75+ SHGC	SG Clear HC Low-E 7+ Uv & 0.75+ SHGC	—
Better	Standard & Boutique	0.42	0.48	0.48	0.46	SG Neutral HC Low-E 6.5 Uv & 0.65 SHGC	SG Neutral HC Low-E 6.5 Uv & 0.65 SHGC	SG Neutral HC Low-E 6.5 Uv & 0.65 SHGC
Best	Standard & Boutique	0.26	0.32	—	0.30	—	DG Clear SC Low-E 5.5 Uv & 0.55 SHGC	DG Clear SC Low-E 5.5 Uv & 0.55 SHGC

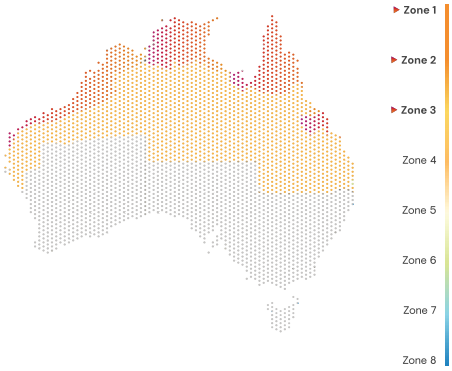
*Information 7 Star u-value table based on agwa.com.au/Members/Members/Technical-Resources/AGWA-Guide-Series.aspx

In hot conditions buildings **gain up to 87%** of heat through glass and windows.

Queensland has multiple climate zones, ranging from zones 1 to 5. Most of Queensland's population (~70%) lives in metropolitan centres across the Southeast of the state. These areas fall within climate zone 2 (Subtropical), which is primarily a cooling climate. In cooling climates, choosing energy-efficient windows and doors is essential to reduce heat gain and improve indoor comfort.

The U-value measures how well a window resists heat transfer; lower values mean better insulation, which helps limit outdoor heat entering the space. More critical in cooling climates is the Solar Heat Gain Coefficient (SHGC), which indicates how much solar radiation passes through glazing. A low SHGC is ideal for blocking unwanted solar heat. For best performance in cooling climates, windows and glazed doors should have low SHGC and reasonably low U-values to reduce cooling loads and save energy.

The most effective windows for energy efficiency performance will change depending on where you live. At A&L, our team helps customers every day achieve the right configuration of energy efficiency technologies for their climate, budget and project goals.



Walls	8% ↑
Floor	0% ↑
Roof	5% ↑
Glass and windows	87% ↑



Dive deeper into the numbers

Discover the full performance ratings of our product range below.

Product Type	WERS Code	Option	Glass Type	U Value	SHGC	Reduction of SHGC
Standard Sliding Window	A&L-003-004	Standard	Clear SG	6.1	0.76	–
	A&L-003-300	Good	Hard Coat Low-E SG	4.4	0.64	16%
	A&L-003-308	Better	Neutral Hard Coat Low-E SG	4.6	0.48	36%
	Not available	Best	Soft Coat Low-E DG	–	–	–
Standard Fixed Sliding Window	A&L-047-001	Standard	Clear SG	5.9	0.79	–
	A&L-047-303	Good	Hard Coat Low-E SG	3.7	0.64	19%
	A&L-047-304	Better	Neutral Hard Coat Low-E SG	4.4	0.50	37%
	Not available	Best	Soft Coat Low-E DG	–	–	–
Standard Double Hung Window	A&L-006-001	Standard	Clear SG	5.9	0.72	–
	A&L-006-301	Good	Hard Coat Low-E SG	4.2	0.61	23%
	A&L-006-XXX	Better	Neutral Hard Coat Low-E SG	4.4	0.46	42%
	Not available	Best	Soft Coat Low-E DG	–	–	–
Standard Awning Window	A&L-001-004	Standard	Clear SG	5.8	0.65	–
	A&L-001-300	Good	Hard Coat Low-E SG	4.3	0.55	15%
	A&L-001-309	Better	Neutral Hard Coat Low-E SG	4.5	0.42	36%
	A&L-004-316	Best	Soft Coat Low-E DG	2.8	0.26	60%
Standard Fixed Awning Window	A&L-045-001	Standard	Clear SG	5.6	0.77	–
	A&L-045-300	Good	Hard Coat Low-E SG	3.7	0.64	16%
	A&L-045-302	Better	Neutral Hard Coat Low-E SG	4.0	0.48	37%
	A&L-046-309	Best	Soft Coat Low-E DG	2.0	0.32	58%
Boutique Awning Window	A&L-023-004	Standard	Clear SG	5.8	0.55	–
	A&L-023-305	Good	Hard Coat Low-E SG	4.7	0.47	15%
	A&L-023-309	Better	Neutral Hard Coat Low-E SG	4.8	0.36	34%
	A&L-024-314	Best	Soft Coat Low-E DG	3.2	0.24	56%
Boutique Fixed Awning Window	A&L-025-004	Standard	Clear SG	5.7	0.76	–
	A&L-025-305	Good	Hard Coat Low-E SG	3.9	0.64	16%
	A&L-025-309	Better	Neutral Hard Coat Low-E SG	4.2	0.48	37%
	A&L-026-314	Best	Soft Coat Low-E DG	2.2	0.32	58%
Standard Sliding Door	A&L-012-004	Standard	Clear SG	6.1	0.72	–
	A&L-012-301	Good	Hard Coat Low-E SG	4.3	0.61	15%
	A&L-012-309	Better	Neutral Hard Coat Low-E SG	4.6	0.46	36%
	A&L-013-313	Best	Soft Coat Low-E DG	2.7	0.30	58%
Boutique Sliding Door	A&L-042-022	Standard	Clear SG	6.1	0.60	–
	A&L-042-305	Good	Hard Coat Low-E SG	4.7	0.51	15%
	A&L-042-309	Better	Neutral Hard Coat Low-E SG	4.9	0.38	37%
	A&L-043-310	Best	Soft Coat Low-E DG	3.4	0.26	56%