A&L WINDOWS | DOORS

ComfortSmart
OPTIMAL



Achieving 7-stars in your climate

Choosing the right glass starts with understanding your climate.

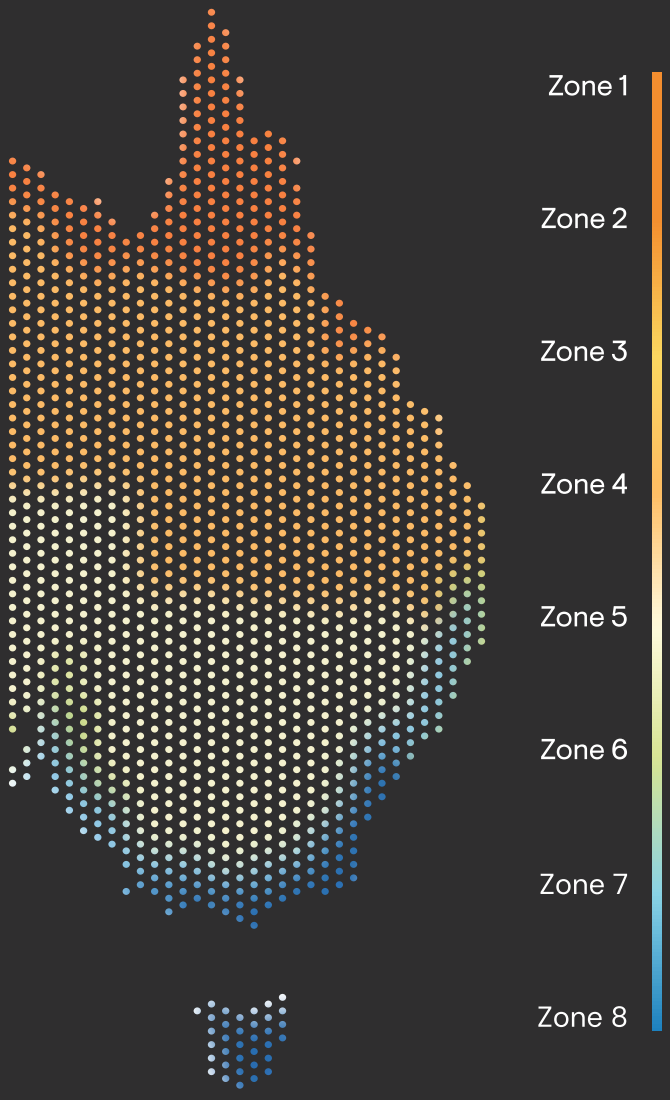
Climate zones have a significant impact on energy efficiency. To achieve 7-stars in your build, it's important to know what metrics to look out for.

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

Most people in these regions live within zone 2, where cooling the home is the priority. Solar Heat Gain Coefficient (SHGC) measures how much solar radiation passes through your glazing. A lower SHGC means less unwanted heat entering the home, reducing cooling loads and energy costs.

In cold conditions, buildings lose up to 49% of heat through glass and windows.

Victoria and lower New South Wales fall within climate zones 6 and 7, where homes need to prevent heat loss. The key metric in these areas is the home's U-value, measuring how well windows resist heat transfer. A lower U-value means better insulation, keeping the home warmer and reducing heating costs.



ComfortSmart
OPTIMAL

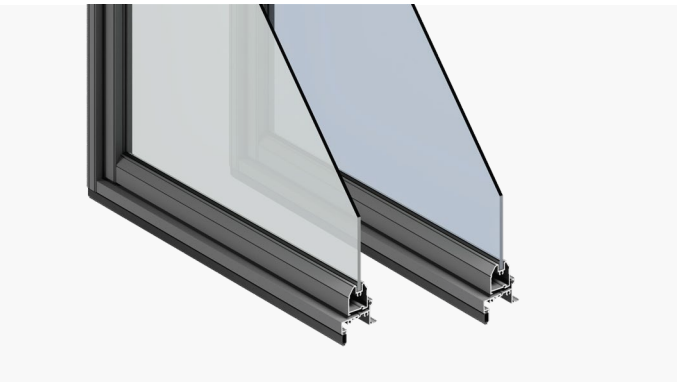
Build smarter, feel the difference. Our frame, sash and glass technologies are your scalable pathway to 7-star performance.

Thermally broken systems (VIC only)



Cut heat transfer for scalable, cost-effective thermal performance with an innovative polyamide barrier.

Low-E glass Specialised



Specialised coatings that control heat transfer through glass, reflecting heat out in cooling climates and retaining warmth in heating climates.

Double glazing



Two panes of glass separated by an argon-filled cavity that traps air, reducing heat transfer and improving comfort year-round.

Inline reveal



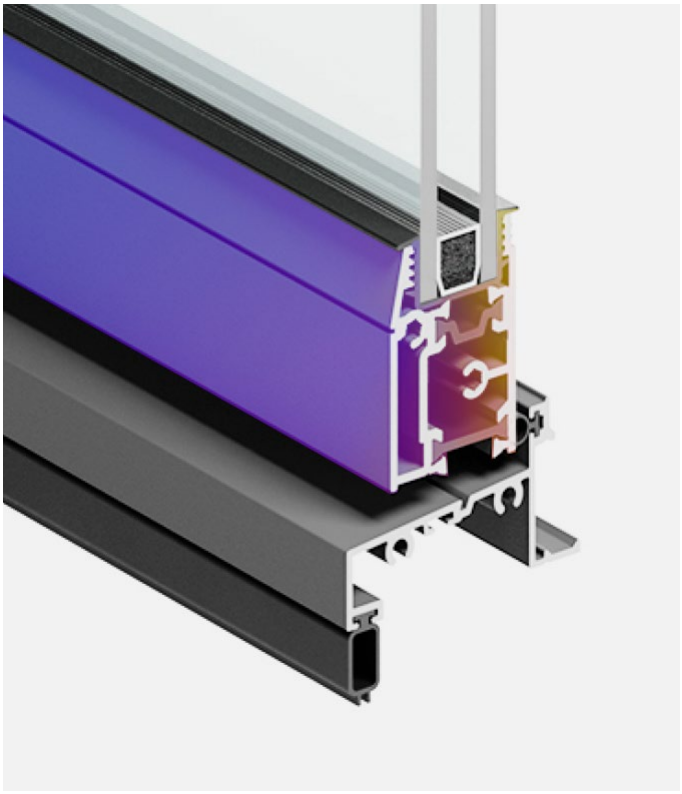
Our timber reveal sits flush with the aluminium frame, reducing thermal bridging across our complete product range.

Heating climates



The smarter path to thermal performance

ComfortSmart Hybrid is our latest thermally broken sash and panel, engineered for outstanding energy efficiency in cool climates. Available in our Standard and Boutique frames in Victoria, it offers a smarter path to thermal performance without the complexity of a fully broken system.



Insulated polyamide barrier

A polyamide insert between internal and external frames reduces heat transfer at its most critical point.

Same-frame advantage

Now standard in Victoria, simplifying procurement and installation.

Scalable energy performance

Pair with our double glazing, inline reveal, and Low-E glass technologies for increasing levels of performance.

DG — Double Glazed Unit
TB — Full Thermally Broken
Single coat — Soft Coat Low-E
Double coat — Soft & 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					
		Awn	Fix	SD			
Standard	ComfortSmart Hybrid	3.2	2.9	3.3	Clear DG Glass UV Range - 3.5 - 4.0+	Clear DG Glass UV Range - 3.0 - 3.5	—
Good	ComfortSmart Hybrid	2.4	2.0	2.4	DG Single Coat Low-E UV Range - 2.5 - 3.0	DG Single Coat Low-E UV Range - 2.5 - 3.0	DG Single Coat Low-E UV Range - 2.5 - 3.0
Better	ComfortSmart Hybrid	2.2	1.6	2.2	—	DG Double Coat Low-E UV Range - 2.0 - 2.5	DG Double Coat Low-E UV Range - 2.0 - 2.5
Best	ComfortSmart & ComfortSmart Ultra	2.1	1.7	1.9	—	—	DG TB Single Coat Low-E UV Range - 1.5 - 2.0

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

Window manufacturer performance comparison†

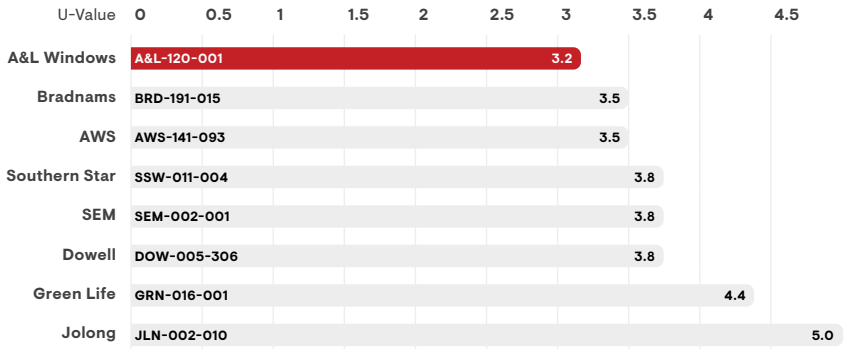
In Victoria, one of the most effective ways to achieve 7 stars in your home is by having windows and doors with a low ‘U-Value’, which indicates better insulation. The below Standard, Good, Better or Best options highlight an indicative U-Value comparison for our awning products.



Standard

ComfortSmart Hybrid

DG Clear



†Performance comparison based on Standard Residential Awning Frames

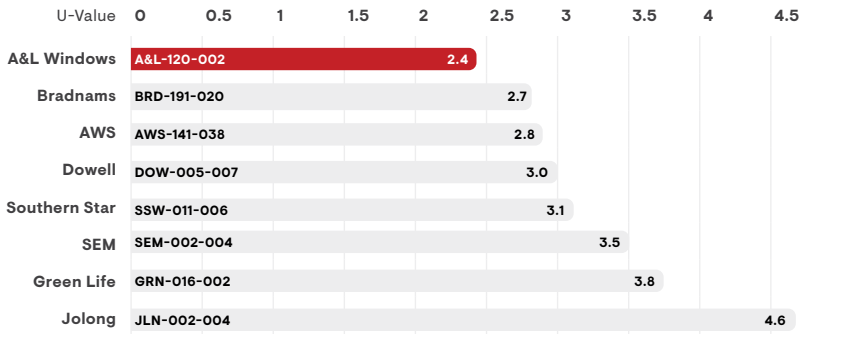


Good

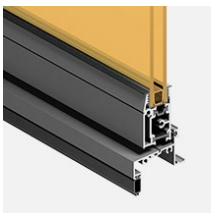
ComfortSmart Hybrid

DG Single Coat Low-E

✓



†Performance comparison based on Standard Residential Awning Frames

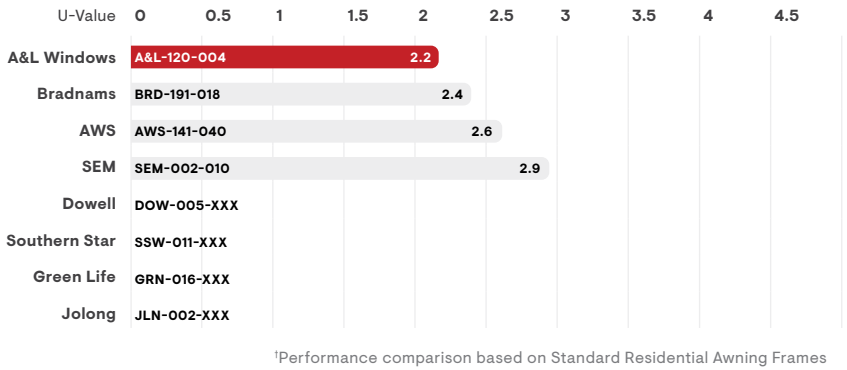


Better

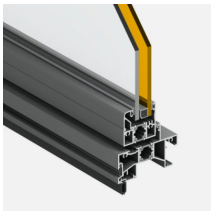
ComfortSmart Hybrid

DG Double Coat Low-E

✓ ✓



†Performance comparison based on Standard Residential Awning Frames



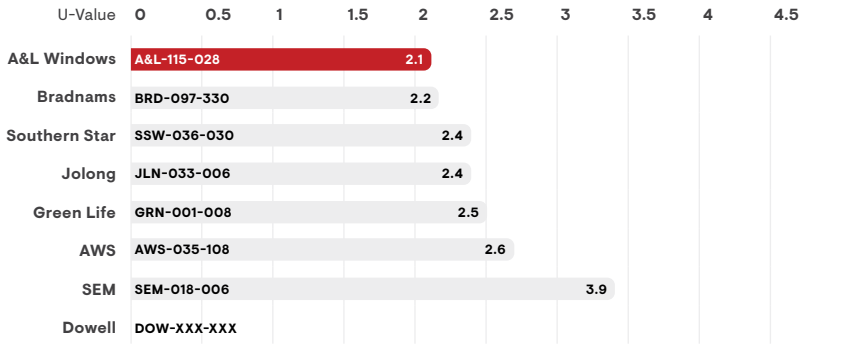
Best

ComfortSmart Ultra

Full Thermally Broken

DG Single Coat Low-E

✓ ✓ ✓



†Performance comparison based on Semi-Commercial Full Thermally Broken Frames

The data for the U Value comparison was taken from the publicly accessible WERSLink website (werslink.com.au), captured on 15th July 2026. Products included in the comparison closely align with the characteristics of the products being compared: aluminium residential windows (approximately 60mm depth) and semi-commercial thermally broken windows (80–100+mm 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.

Dive deeper into the numbers

For a complete guide to the U-Value performance ratings of our products, check out the below table.

Product Type	WERS Code	Option	Glass Type	U Value	SHGC	Reduction of U-Value
Standard Awning Window	A&L-120-001	Standard	Hybrid Sash Clear DG	3.2	0.56	–
	A&L-120-002	Good	Hybrid Sash Soft Coat Low-E DG	2.4	0.43	25%
	A&L-120-004	Better	Hybrid Sash Double Coat Low-E DG	2.2	0.39	31%
	Not available	Best	Thermally Broken Single Coat Low-E DG	–	–	–
Standard Fixed Window	A&L-046-001	Standard	Clear DG	2.9	0.68	–
	A&L-046-307	Good	Single Coat Low-E DG	2.0	0.52	31%
	A&L-046-304	Better	Double Coat Low-E DG	1.6	0.48	45%
	Not available	Best	Thermally Broken Single Coat Low-E DG	–	–	–
Boutique Awning Window	A&L-118-001	Standard	Hybrid Sash Clear DG	3.5	0.50	–
	A&L-118-003	Good	Hybrid Sash Single Coat Low-E DG	2.8	0.38	20%
	A&L-118-006	Better	Hybrid Sash Double Coat Low-E DG	2.7	0.35	23%
	A&L-115-028	Best	Thermally Broken Single Coat Low-E DG	2.1	0.39	40%
Boutique Fixed Window	A&L-026-012	Standard	Clear DG	3.0	0.67	–
	A&L-026-304	Good	Single Coat Low-E DG	2.1	0.53	40%
	A&L-026-305	Better	Double Coat Low-E DG	2.1	0.48	40%
	A&L-116-035	Best	Thermally Broken Single Coat Low-E DG	1.7	0.50	51%
Standard Sliding Door	A&L-122-001	Standard	Hybrid Panel Clear DG	3.3	0.64	–
	A&L-122-003	Good	Hybrid Panel Single Coat Low-E DG	2.4	0.49	27%
	A&L-122-006	Better	Hybrid Panel Double Coat Low-E DG	2.2	0.44	33%
	A&L-108-015	Best	Thermally Broken Single Coat Low-E DG	1.9	0.49	42%
Boutique Sliding Door	A&L-123-001	Standard	Hybrid Panel Clear DG	3.8	0.53	–
	A&L-123-006	Good	Hybrid Panel Single Coat Low-E DG	2.9	0.44	22%
	A&L-123-012	Better	Hybrid Panel Double Coat Low-E DG	2.8	0.39	27%
	A&L-109-034	Best	Thermally Broken Single Coat Low-E DG	2.1	0.47	43%

Cooling climates



A scalable path to performance.

When you need to keep the heat out, energy-efficient solutions are already built into our range.

For increasing levels of performance, we'll work with you to configure the right glass and frame technologies to match your specs and climate demands.



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 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.

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

Window manufacturer performance comparison†

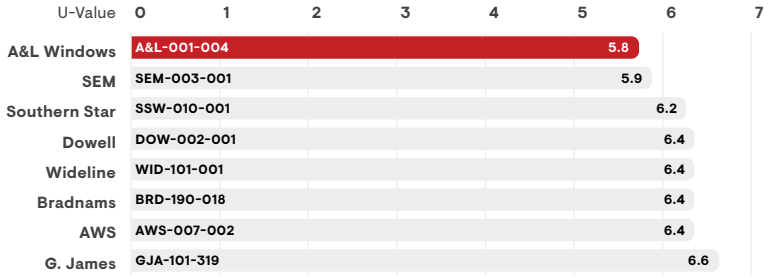
At A&L, we're proud to lead the industry with energy-efficient technologies that set new performance standards. Our Good, Better, Best range offers scalable energy savings by reducing solar heat gain (SHGC) and improving insulation (U-value). These advanced glass options help keep homes cooler and more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



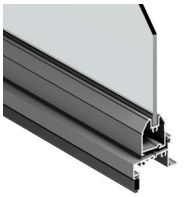
Standard

Residential Awning Window

4mm Clear SG



†Performance comparison based on Standard Residential Awning Frames

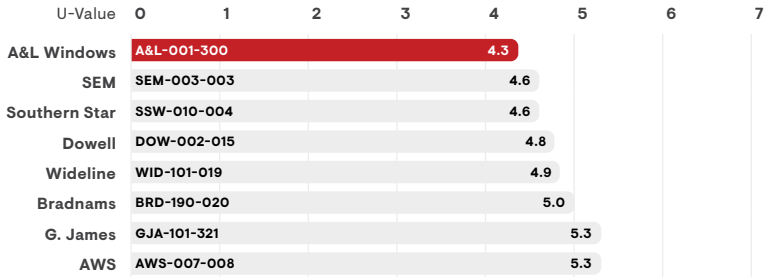


Good

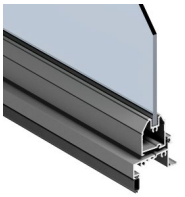
Residential Awning Window

Hard Coat Low-E SG

✓



†Performance comparison based on Standard Residential Awning Frames

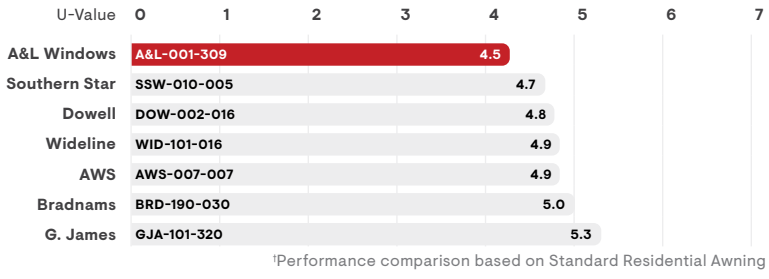


Better

Residential Awning Window

Hard Coat Neutral Low-E SG

✓ ✓



†Performance comparison based on Standard Residential Awning Frames

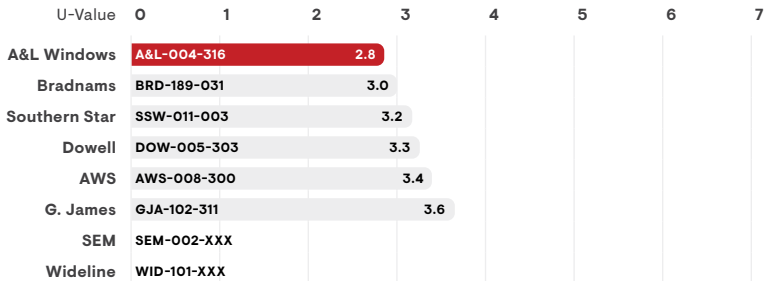


Best

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.

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%

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