Window and Door Specification for 7 Stars

LET'S RAISE THE BAR.

7 Star energy efficiency guide for Vic, NSW, SA and the ACT

STEGBAR

ACHIEVING ENERGY EFFICIENCY THROUGH YOUR WINDOWS AND DOORS

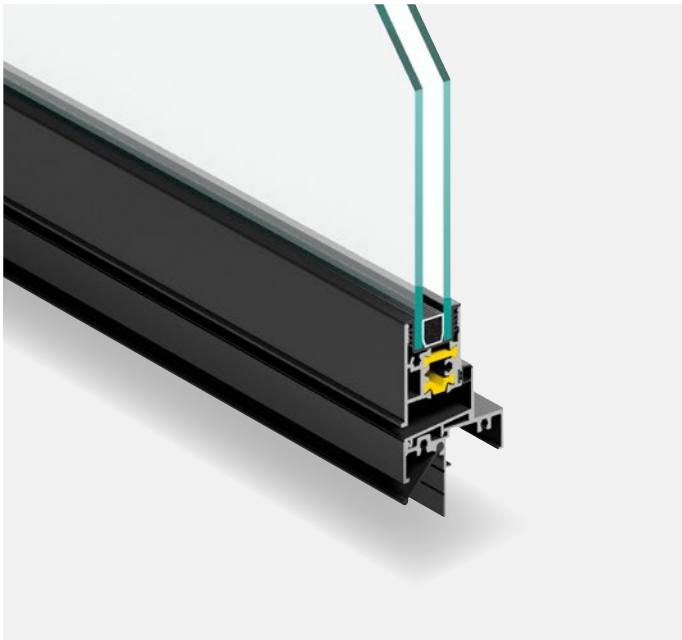
Under the NCC 2022 energy efficiency provisions, all new homes and building permits issued from May 1st, 2024, need to meet a minimum energy efficiency rating of 7 Stars. Here we'll help you understand how your windows and doors can help you achieve this, regardless of whether you're building or renovating.

Achieving greater performance with eX Hybrid

Energy efficiency exists on a scale, with cost and design preferences changing what you might choose for your home.

eX Hybrid offers a balanced solution, providing sufficient U-Value coverage to achieve 7 Star performance, without the cost of a fully thermally broken solution.
The below shows our good, better, best offering when you select the ex Hybrid.

All options include double glazing, a thermally broken sash or panel, and aluminium frame as standard.



What does this mean for the U-Value of your glass?

In NSW, Vic, SA and ACT 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 good, better or best options highlight an indicative U-Value comparison for our awning products.

Awning Frame Series + Glass		U-Value Range
Standard	Residential Aluminium – DG Clear	4.0
Good	eX Hybrid – DG Clear	3.6
Better	eX Hybrid -DG Low-E Soft Coat	2.8
Best	eX Hybrid -DG Low-E Double Coat	2.6
Superior	EnviraSlim – DG Thermally Broken Low-E	2.2

So where do you start?

With so many options for different glazing types and frame types, all with different energy and performance levels, the choices can be complicated to navigate.

This guide is designed to help make glazing and window and door specification and selection easier for residential homes in NSW, Vic, SA and ACT. We have provided a pathway of good, better and best options to give you choices and options suited to your budget and performance needs; and ultimately will help you achieve 7 Stars for your building.

We have developed this guide to support you in your product selection:

- **Homeowners:** this guide explains the different window frame and glass combinations that will help you determine which windows and doors are best suited to your home.
- **Builders:** use this guide as a reference to quickly determine which windows and doors will best suit your client's needs and help you articulate the exact products needed during the specification stage.
- **Energy Assessors:** this guide is a handy quick reference guide to all of Stegbar's energy efficient window solutions. The WERS codes included in this guide allow you to quickly and easily add Stegbar windows to an energy assessment. Of course all of Stegbar's products are listed on the WERS website.

Glazing window and door options to meet 7 Stars

EX HYBRID + DOUBLE GLAZED CLEAR

GOOD

The starting point of improved energy efficiency is to upgrade to the eX Hybrid with clear double glazing. The eX combines thermally broken technology with Stegbar's standard frames, which significantly improves thermal performance, but without the price tag of a full thermally broken product.

EX HYBRID + DOUBLE GLAZED LOW-E SOFT COAT

BETTER

Take the next step in energy efficient glazing by combining the eX Hybrid with Low Emissivity (Low-E) soft coat glazing. The Low-E coating is applied to the inside of one piece of glass. This coating reduces the amount of heat or cold that is transferred. While it represents a higher initial investment, the combination provides tangible long term benefits in energy efficiency.

EX HYBRID + DOUBLE GLAZED LOW-E DOUBLE COAT

BEST

Our best performing glass is double glazed Low-E double-coat, using both a Soft and Hard Low-E coating on surfaces 2 and 4 of your glass. These two coatings lower the U-Value even more, while the enhanced eX Hybrid sash or panel helps with compliance in more complex projects.

ENVIRA COLLECTION + DOUBLE GLAZED LOW-E SINGLE & DOUBLE COAT

SUPERIOR

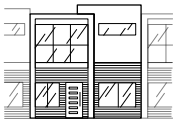
Our superior offering is our Envira Collection, available with single or double-coat Low-E double-glazing. Providing a range of options to suit the most advanced energy efficiency needs.

Applying this to your build

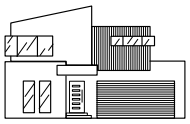
For the standard single-storey and double-storey home, it's easy to choose from our good, better and best range. Alongside design and orientation, the products and glazing below will assist in achieving 7 Stars for your building.

DG - Double Glazed Unit
TB - Full Thermally Broken
Single coat - Soft Coat Low-E
Double coat - Soft & Hard Coat Low-E
SD - Sliding Door

Single-Storey Detatched
Up to 27% glazing ratio



Double-Storey Townhouse
Up to 20% glazing ratio



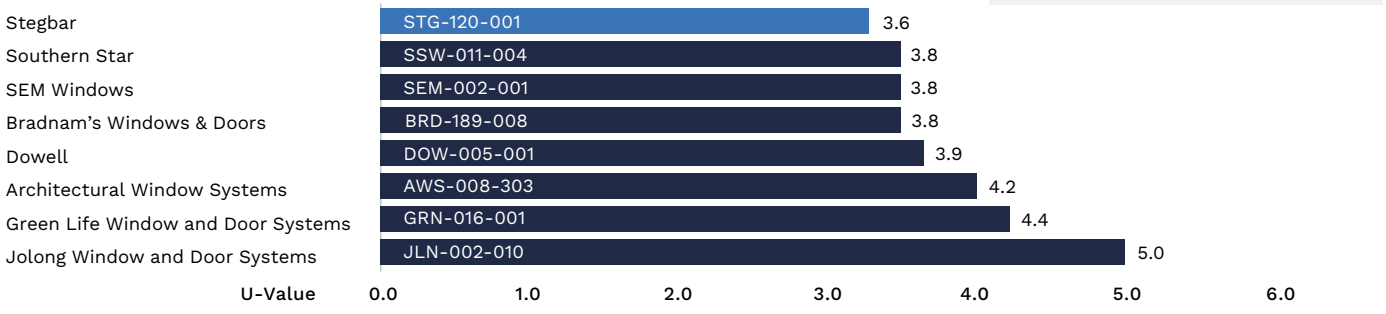
Double-Storey Detatched
Up to 28% glazing ratio

Option	Product Range	Awning	Fixed	SD	Single-Storey	Townhouse	Double-Storey
Good	eX Hybrid - DG Clear	4.0	3.2	3.9	UV range - 3.5 - 4.0+	UV range - 3.0 - 3.5	
Better	eX Hybrid - DG Single Coat	2.8	2.2	2.6	UV range - 2.5 - 3.0	UV range - 2.5 - 3.0	UV range - 2.5 - 3.0
Best	eX Hybrid - DG Double Coat	2.6	1.9	2.4		UV range - 2.0 - 2.6	UV range - 2.0 - 2.6
Superior	EnviraSlim - TB DG Single Coat	2.2	1.7	1.9			UV Range - 1.5 - 2.0

Raising the bar with energy efficiency

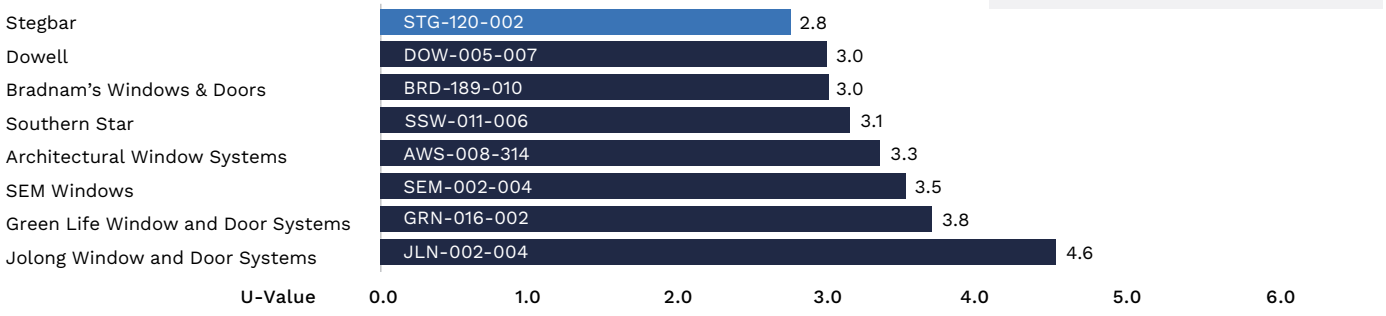
EX HYBRID + DOUBLE GLAZED CLEAR

GOOD



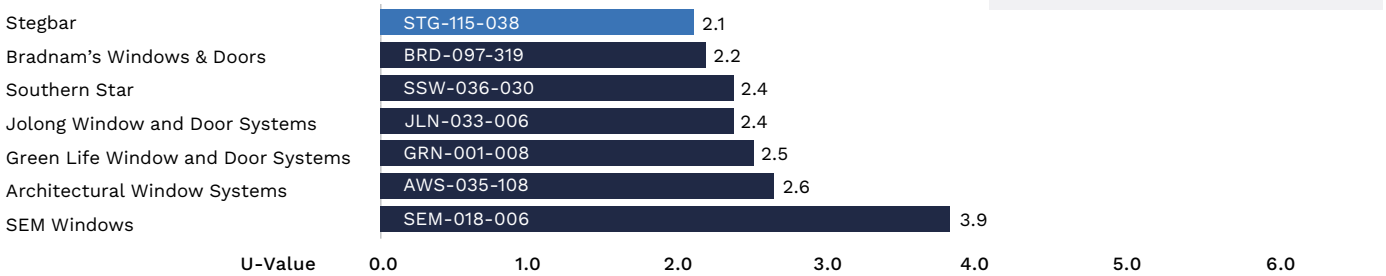
EX HYBRID + DOUBLE GLAZED LOW-E SOFT COAT

BETTER



ENVIRALUXE + DOUBLE GLAZED LOW-E SINGLE COAT

SUPERIOR



The data for the U-Value comparison was taken from the publicly accessible WERSLink website (werslink.com.au), captured on 17th March 2025. 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/spec's are not available, the closest match is used.

STEGBAR PRODUCT QUICK REFERENCE GUIDE

Product Type	WERS Code	Option	Glass Type	U-Value	SHGC	Cooling	Heating
Residential Awning Window	STG-001-026	Standard	Residential DG Clear	4.0	0.57	★★½	★★★★★½
	STG-120-001	Good	eX Hybrid DG Clear	3.6	0.58	★★½	★★★★★★½
	STG-120-002	Better	eX Hybrid DG Low-E Soft Coat	2.8	0.45	★★★½	★★★★★★½
	STG-120-015	Best	eX Hybrid DG Low-E Double Coat	2.6	0.41	★★★★½	★★★★★★½
	STG-102-026	Superior	EnviraSlim Thermally Broken DG Low-E Soft Coat	2.2	0.42	★★★★½	★★★★★★½
Residential Fixed Window	STG-078-042	Standard	Residential DG Clear	3.2	0.70	★½	★★★★★½
	STG-078-337	Better	Residential DG Low-E Soft Coat	2.2	0.53	★★★½	★★★★★½
	STG-078-300	Best	Residential DG Low-E Double Coat	1.9	0.48	★★★½	★★★★★½
	STG-100-012	Superior	EnviraSlim Thermally Broken DG Low-E Soft Coat	1.7	0.53	★★★½	★★★★★★½
Residential Sliding Window	STG-006-042	Standard	Residential DG Clear	4.2	0.57	★★½	★★★★½
	STG-006-068	Better	Residential DG Low-E Soft Coat	3.4	0.45	★★★½	★★★★½
	STG-006-300	Best	Residential DG Low-E Double Coat	3.1	0.41	★★★½	★★★★½
	STG-104-012	Superior	EnviraSlim Thermally Broken DG Low-E Soft Coat	2.2	0.50	★★★½	★★★★★½
Semi Commercial Awning Window	STG-068-317	Standard	Alumiere DG Clear	4.2	0.57	★★½	★★★★★½
	STG-068-314	Better	Alumiere DG Low-E Soft Coat	3.4	0.44	★★★½	★★★★★½
	STG-068-300	Best	Alumiere DG Low-E Double Coat	3.2	0.40	★★★½	★★★★★½
	STG-103-018	Superior	EnviraLuxe Thermally Broken DG Low-E	2.3	0.39	★★★★½	★★★★★★½
Semi Commercial Fixed Window	STG-074-001	Standard	Alumiere DG Clear	3.3	0.68	★½	★★★★★½
	STG-074-336	Better	Alumiere DG Low-E Soft Coat	2.4	0.53	★★★½	★★★★★½
	STG-074-332	Best	Alumiere DG Low-E Double Coat	2.1	0.48	★★★½	★★★★★½
	STG-101-049	Superior	EnviraLuxe Thermally Broken DG Low-E Soft Coat	1.8	0.50	★★★½	★★★★★★½
Semi Commercial Sliding Window	STG-066-341	Standard	Alumiere DG Clear	3.9	0.63	★★½	★★★★½
	STG-066-305	Better	Alumiere DG Low-E Soft Coat	3.0	0.48	★★★½	★★★★½
	STG-066-300	Best	Alumiere DG Low-E Double Coat	2.8	0.43	★★★½	★★★★½
Residential Sliding Door	STG-004-012	Standard	Residential DG Clear	3.9	0.60	★★½	★★★★½
	STG-004-030	Good	eX Hybrid DG Clear	3.5	0.65	★★½	★★★★★½
	STG-121-003	Better	eX Hybrid DG Low-E Soft Coat	2.6	0.49	★★★½	★★★★★½
	STG-121-001	Best	eX Hybrid DG Low-E Double Coat	2.4	0.44	★★★★	★★★★★½
	STG-108-015	Superior	EnviraSlim Thermally Broken DG Low-E Soft Coat	1.9	0.49	★★★½	★★★★★★
Semi Commercial Sliding Door	STG-076-001	Standard	Alumiere DG Clear	3.8	0.58	★★½	★★★★½
	STG-076-302	Better	Alumiere DG Low-E Soft Coat	3.0	0.45	★★★½	★★★★½
	STG-076-300	Best	Alumiere DG Low-E Double Coat	2.8	0.41	★★★½	★★★★½
	STG-109-035	Superior	EnviraLuxe Thermally Broken DG Low-E Soft Coat	2.1	0.47	★★★½	★★★★★½

*DG - Double Glazed

Thank you for choosing Stegbar.
Scan the QR code to find out more about Energy Efficiency and building.

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