

GLASS THAT WILL SHAPE YOUR THINKING

TECHNICAL SPEC INFO



*Low E double glazing from
Metro Performance Glass.*



METRO
PERFORMANCE GLASS

More options. More performance.

Metro Performance Glass offers a range of double glazing units that incorporate the latest in Low Emissivity technology. Your designs can be tailored to match the conditions, with the best combination of insulation, anti-fading and clarity.

ENERGY STAR® Qualified Windows must receive a rating of 3 stars or greater¹



Non Low E Glass Standard Spacer

	Standard Aluminium Frame ¹		Thermally broken Aluminium Frame ¹		Heat Loss & Condensation	Visibility & Glare		Heat Gain	Fading
	WEERS ¹	R (Rw avg) ¹	WEERS ¹	R (Rw avg) ¹	U (Ug Cog) ³	VLT ⁴	VLR-E ⁴	SC ⁴	Tdw-ISO ⁴
Make-up (mm) ²	Indicative Rating	Indicative R Value	Indicative Rating	Indicative R Value	U Value	Visible Light Transmission	External Reflectance	Shading co-efficient	Fading reduction
4-8-4	2.0	0.26-0.28	2.5	0.29-0.31	3.09	82%	15%	0.91	0.77
4-10-4	2.0	0.26-0.28	2.5	0.29-0.31	2.95	82%	15%	0.91	0.77
4-12-4	2.0	0.26-0.28	2.5	0.29-0.31	2.86	82%	15%	0.91	0.77
4-14-4	2.0	0.26-0.28	2.5	0.29-0.31	2.78	82%	15%	0.91	0.77
4-16-4	2.0	0.26-0.28	2.5	0.29-0.31	2.74	82%	15%	0.91	0.77



High Clarity, Low Haze Low E Glass

	Standard Aluminium Frame ¹		Thermally broken Aluminium Frame ¹		Heat Loss & Condensation	Visibility & Glare		Heat Gain	Fading
	WEERS ¹	R (Rw avg) ¹	WEERS ¹	R (Rw avg) ¹	U (Ug Cog) ³	VLT ⁴	VLR-E ⁴	SC ⁴	Tdw-ISO ⁴
Make-up (mm) ²	Indicative Rating	Indicative R Value	Indicative Rating	Indicative R Value	U Value	Visible Light Transmission	External Reflectance	Shading co-efficient	Fading reduction
4-8-4	3.0	0.32-0.34	4.5	0.41-0.43	2.33	69%	12%	0.63	0.64
4-10-4	3.0	0.32-0.34	4.5	0.41-0.43	2.10	69%	12%	0.63	0.64
4-12-4	3.0	0.32-0.34	4.5	0.41-0.43	1.93	69%	12%	0.63	0.64
4-14-4	3.0	0.32-0.34	4.5	0.41-0.43	1.79	69%	12%	0.63	0.64
4-16-4	3.0	0.32-0.34	4.5	0.41-0.43	1.71	69%	12%	0.63	0.64

NOTES:

¹Based on an average new house lot of joinery to determine the average R-value (Rw avg) and Window Energy Efficiency Rating System (WEERS) rating. The average house lot of joinery totals 41m² of glazing in a typical frame with 3 doors and 17 windows. The Indicative WEERS star ratings shown are a guide and will vary with different frame types and or window/door sizes. The WEERS scale is out of 6, the higher the star

rating the better the windows thermal performance. Energy Star® Qualified windows must achieve a rating of 3 stars or greater and are available from Energy Star® qualified partners.

²Low E Coating on surface 2 of the Double Glazed unit.

³U value calculated on LBL W7 software using CEN conditions - argon = 90% argon, 10% air mix.



Low E Max

Double Glazing

High Clarity, Low Haze Low E Glass, includes Argon Gas and Thermal Spacer

	Standard Aluminium Frame ¹		Thermally broken Aluminium Frame ¹		Heat Loss & Condensation	Visibility & Glare		Heat Gain	Fading
	WEERS ¹	R (Rw avg) ¹	WEERS ¹	R (Rw avg) ¹	U (Ug Cog) ³	VLT ⁴	VLR-E ⁴	SC ⁴	Tdw-ISO ⁴
Make-up (mm) ²	Indicative Rating	Indicative R Value	Indicative Rating	Indicative R Value	U Value	Visible Light Transmission	External Reflectance	Shading co-efficient	Fading reduction
4-8-4	3.5	0.35-0.37	5.0	0.44-0.47	1.98	69%	12%	0.63	0.64
4-10-4	3.5	0.35-0.37	5.0	0.44-0.47	1.79	69%	12%	0.63	0.64
4-12-4	3.5	0.35-0.37	5.0	0.44-0.47	1.64	69%	12%	0.63	0.64
4-14-4	3.5	0.35-0.37	5.0	0.44-0.47	1.54	69%	12%	0.63	0.64
4-16-4	3.5	0.35-0.37	5.0	0.44-0.47	1.51	69%	12%	0.63	0.64

Low E Xcel

Double Glazing

High Performance High Clarity, Low Haze Low E Glass, includes Argon Gas and Thermal Spacer

	Standard Aluminium Frame ¹		Thermally broken Aluminium Frame ¹		Heat Loss & Condensation	Visibility & Glare		Heat Gain	Fading
	WEERS ¹	R (Rw avg) ¹	WEERS ¹	R (Rw avg) ¹	U (Ug Cog) ³	VLT ⁴	VLR-E ⁴	SC ⁴	Tdw-ISO ⁴
Make-up (mm) ²	Indicative Rating	Indicative R Value	Indicative Rating	Indicative R Value	U Value	Visible Light Transmission	External Reflectance	Shading co-efficient	Fading reduction
4-8-4	4.0	0.38-0.4	5.5	0.48-0.54	1.70	81%	13%	0.67	0.68
4-10-4	4.0	0.38-0.4	5.5	0.48-0.54	1.47	81%	13%	0.67	0.68
4-12-4	4.0	0.38-0.4	5.5	0.48-0.54	1.31	81%	13%	0.67	0.68
4-14-4	4.0	0.38-0.4	5.5	0.48-0.54	1.18	81%	13%	0.67	0.68
4-16-4	4.0	0.38-0.4	5.5	0.48-0.54	1.15	81%	13%	0.67	0.68

⁴SC, VLT, Tdw-ISO calculated on LBL W7 software using NFRC 100-2010 conditions and Guardian Software.

Condensation - Low E double glazed units make the internal glass temperature warmer and reduce the onset of condensation on the inner glass surface.

External Dew - Low E double glazed units are so efficient they can sometimes cause the outer panes to dew as the outer pane surface is colder due to less heat loss.

For more information call 0800 658 945





www.lowedg.co.nz/design



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