

Stay
comfortable
year round with
solar control glass.



Explore our solar control range



The all-round performer keeping you warm in winter and cool in summer

- Reduces solar heat by up to 48%* making it perfect for homes where overheating may be a risk
- Up to 61%* better heat retention
- Has a clear aesthetic, letting in 74% of visible light, for naturally light filled spaces



The specialist solar and thermal control option with a tinted appearance for privacy

- Reduces solar heat by up to 69%*, making it perfect for homes where overheating may be an issue
- Up to 61%* better heat retention
- Lets in 41% of visual light, protecting you from the sun's glare
- The grey tone is consistent even when used across different thickness, unlike other tinted glass which gets darker as the glass gets thicker



Reflective appearance for privacy plus high solar protection

- Reduces solar heat by up to 71%* great for homes in warmer regions with a lot of sunshine
- Up to 61%* better heat retention
- The reflective exterior not only provides privacy, but helps protect you from the sun's glare, letting in 31% of visual light

*Compared to standard double glazing

What is solar control glass?

Homes with lots of sunlight can face the challenge of overheating, making rooms uncomfortable and leading to higher energy costs to cool your home.

Metro's solar control double glazing range helps to keep interiors cooler in summer and warmer in winter, ensuring comfort and energy efficiency year round.

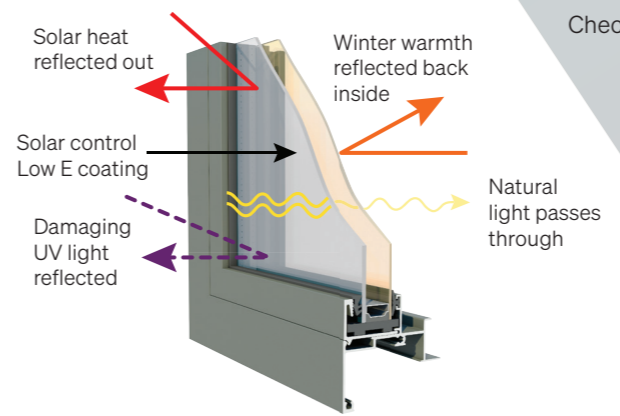
- Reflects excess heat, reducing glare and sun damage
- Provides superior thermal insulation with Low E technology
- Lowers dependency on heating and cooling systems
- Perfect for sun-exposed windows and facades

Benefits

Enjoy more comfortable living with our solar control range.

- Solar control** - advanced technology reflects heat, keeping your home cooler in summer
- Thermal insulation** - retains up to 61% more warmth than standard double glazing, ensuring a cozy home in winter and lower energy bills
- Glare reduction** - minimises glare and helps protect furnishings from fading and sun damage
- Versatility** - combines easily with laminates for sound control, safety or frosted glass for privacy
- Consistent colour** - the Low E coating ensures uniform color across different glass thicknesses, maintaining your home's visual appeal from every angle, unlike tinted glass which darkens as the thickness increases
- Stylish design** - available in clear, grey and reflective silver tones to complement your home's aesthetic

How Metro solar control glass works



Is it suitable for my home?

Check two or more features below and solar control may be right for you:

- Windows are large and east, west or north facing
- Located in high sunshine regions
- Glare may be an issue and limited shade is available
- Rising energy costs are a consideration
- Ventilation is not optimal
- Interior overheating is a risk

Solar control range performance data



Xtreme™ - Supreme solar control with maximum light

					EN 673		EN410				
Building Code Acceptable Solution H1/AS1 Schedule E.1.1.1 (see schedule notes)					Heat Loss & Condensation	Visibility			Heat Gain		Fading
Window System Material Type by Climate Zone					Ug ²	VLT ³	VLR-E ³	VLR-I ³	SF ³	LSG ^{3,4}	Tdw-ISO ^{3,5}
Make-up mm ¹	Standard Aluminium	Thermal Break Aluminium	uPVC	Timber	U Value Insulation value, lower is better	Visible Light Transmission Higher % means more daylight transmitted	External Reflectance Higher values mean more reflection seen	Internal Reflectance Lower the number the easier to see through the glass	Solar Factor (g) Lower number means less solar heat coming in	Selectivity Higher number means more natural light and less solar heat	Damaged Weighted Transmission Lower values mean better fading protection
4-8-4			All Zones	All Zones	1.6	74%	12%	13%	41%	1.80	0.58
4-10-4			All Zones	All Zones	1.4	74%	12%	13%	40%	1.85	0.58
4-12-4		Zones 1-4	All Zones	All Zones	1.2	74%	12%	13%	40%	1.85	0.58
4-14-4		All Zones	All Zones	All Zones	1.1	74%	12%	13%	40%	1.85	0.58
4-16-4		All Zones	All Zones	All Zones	1.0	74%	12%	13%	40%	1.85	0.58
4-18-4		All Zones	All Zones	All Zones	1.1	74%	12%	13%	40%	1.85	0.58



SunX™ Grey - Ultimate solar control with a tinted appearance for privacy

					EN 673		EN410				
Building Code Acceptable Solution H1/AS1 Schedule E.1.1.1 (see schedule notes)					Heat Loss & Condensation	Visibility			Heat Gain		Fading
Window System Material Type by Climate Zone					Ug ²	VLT ³	VLR-E ³	VLR-I ³	SF ³	LSG ^{3,4}	Tdw-ISO ^{3,5}
Make-up mm ¹	Standard Aluminium	Thermal Break Aluminium	uPVC	Timber	U Value Insulation value, lower is better	Visible Light Transmission Higher % means more daylight transmitted	External Reflectance Higher values mean more reflection seen	Internal Reflectance Lower the number the easier to see through the glass	Solar Factor (g) Lower number means less solar heat coming in	Selectivity Higher number means more natural light and less solar heat	Damaged Weighted Transmission Lower values mean better fading protection
4-8-4			All Zones	All Zones	1.7	41%	11%	11%	25%	1.64	0.32
4-10-4			All Zones	All Zones	1.4	41%	11%	11%	25%	1.64	0.32
4-12-4		Zones 1-4	All Zones	All Zones	1.3	41%	11%	11%	25%	1.64	0.32
4-14-4		All Zones	All Zones	All Zones	1.1	41%	11%	11%	24%	1.71	0.32
4-16-4		All Zones	All Zones	All Zones	1.1	41%	11%	11%	24%	1.71	0.32
4-18-4		All Zones	All Zones	All Zones	1.1	41%	11%	11%	24%	1.71	0.32



SunX™ Reflect - Solar control with a reflective exterior

					EN 673		EN410				
Building Code Acceptable Solution H1/AS1 Schedule E.1.1.1 (see schedule notes)					Heat Loss & Condensation	Visibility			Heat Gain		Fading
Window System Material Type by Climate Zone					Ug ²	VLT ³	VLR-E ³	VLR-I ³	SF ³	LSG ^{3,4}	Tdw-ISO ^{3,5}
Make-up mm ¹	Standard Aluminium	Thermal Break Aluminium	uPVC	Timber	U Value Insulation value, lower is better	Visible Light Transmission Higher % means more daylight transmitted	External Reflectance Higher values mean more reflection seen	Internal Reflectance Lower the number the easier to see through the glass	Solar Factor (g) Lower number means less solar heat coming in	Selectivity Higher number means more natural light and less solar heat	Damaged Weighted Transmission Lower values mean better fading protection
4-8-4			All Zones	All Zones	1.7	31%	45%	19%	22%	1.41	0.27
4-10-4			All Zones	All Zones	1.4	31%	45%	19%	22%	1.41	0.27
4-12-4		Zones 1-4	All Zones	All Zones	1.3	31%	45%	19%	22%	1.41	0.27
4-14-4		All Zones	All Zones	All Zones	1.1	31%	45%	19%	22%	1.41	0.27
4-16-4		All Zones	All Zones	All Zones	1.1	31%	45%	19%	22%	1.41	0.27
4-18-4		All Zones	All Zones	All Zones	1.1	31%	45%	19%	22%	1.41	0.27

All Metro Low E Double Glazing units are argon filled and have thermal spacers. *Low E Coating on Surface 2 for standard units and Surface 3 for tint units. ¹Ug Value is centre of glass (COG in W/m2.K) calculated for glass oriented vertically, with proprietary software using CEN boundary conditions. Cavity infills based on air or argon = (90% argon, 10% air mix). ²SC, SF, VLT, VLR-E, VLR-I, Tdw-ISO calculated with proprietary software using CEN boundary conditions. ³LSG = VLT / SF (if the LSG is greater than 10, then the glass transmits more light than total solar heat). ⁴Tdw-ISO is a damage weighted transmittance from the International Standards Organization (ISO) based on the contribution to fading at each wavelength from 300nm to 700nm that include the UV and Visible parts of the solar spectrum. Tolerances - stated performance values can vary based on variations during production, use of float glass substrates on the basis of availability etc. Allowable variation is 3 basis points above or below (+/- 3) the specified values for VLT, VLR-E, VLR-I and SF and +/- 0.1 for U-Value.