

# ULTRASOL STANDARD

## Solar Filtering Thermal Insulation Technology Works On Three Key Design Properties

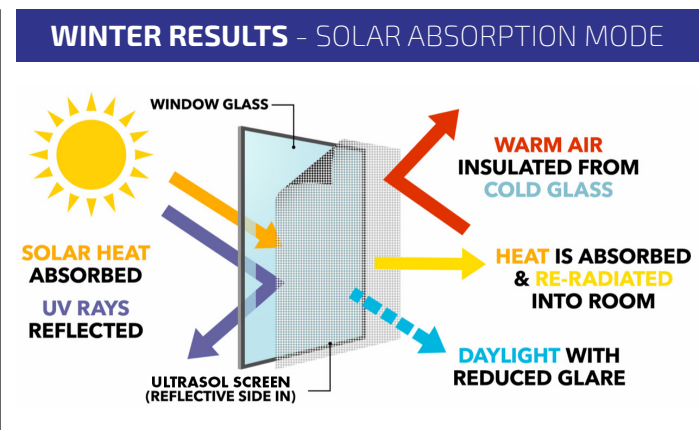
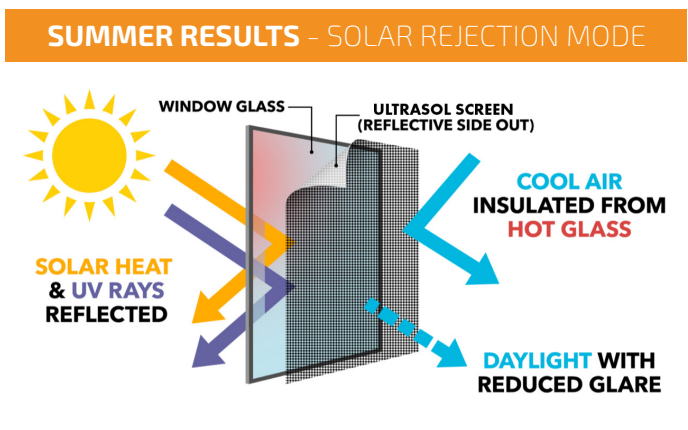
- Ultrasol Window Skins**
- Reflectivity
  - Emissivity
  - Absorbtion

Radiant barrier technology reflects and collectively redirects up to 97% of all 4 methods of solar heat gain without blocking natural light flow and whilst maintaining the visual connection to outside views.

Aluminium has a low emissivity of between .03 - .05. In Summer Performance mode, silver side facing out, only 3-5% of undesirable solar heat gain is emitted through the aluminium layer.

In Winter Performance mode, the black side of the Ultrasol material acts as a solar energy collector, absorbing solar heat gain and re-radiating desirable solar heat inside the building.

Constructed and designed by Ensol, Ultrasol Window Skins technology is a patented process of an aluminium coated infused PET sheet which is perforated and laminated to a sheet of clear PET.



Performance Data

VISIBLE LIGHT TRANSMISSION

Daylight Illumination	over 4850 LUX
Transmittance	27%

KEY PERFORMANCE INDICATORS

UV Light/Rays Blocked	82%
Infrared Light/Rays Blocked	84%
Emissivity	0.9%
Total Solar Energy Rejected	82%

TECHNICAL SPECIFICATIONS

Weight (g/m <sup>2</sup> )	96.7	
Thickness (mm)	0.15	
Flame Spread Index	0	
Smoke Development Index	142	
Tensile Strength (MPA)	(MD)	≥60
	(TD)	≥75
Elongation at Max Load	(MD)	≤65%
	(TD)	≤65%

SOLAR HEAT GAIN BLOCKED

GLASS TYPE	UNPROTECTED	WITH ULTRASOL
Single Pane	13%	82%
Double Pane	36%	86%
Low E	40%	88%
Ultrasol Only	78%	

SOLAR HEAT GAIN ABSORBED

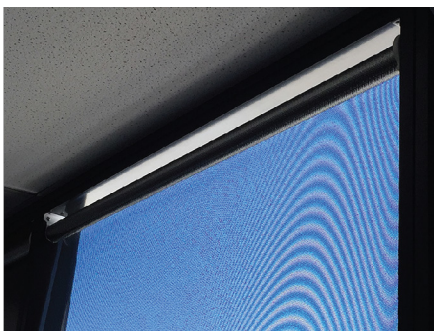
	INCREASE OF 750% WITH ULTRASOL	
Single Pane	6%	46%

LIFESPAN/COMPLIANCE

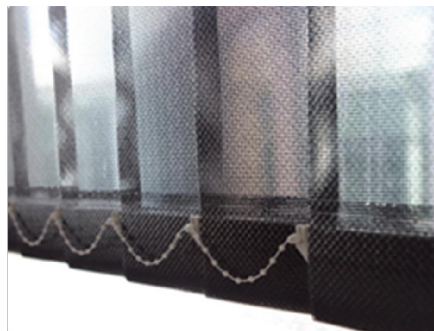
Degradation at 25 years	none
Manufacturer warranty	7 years
Compliant with AS 1530.3	

Deemed to satisfy as a double glazing alternative to meet the Energy Star Rating Legislation for Buildings in Australia

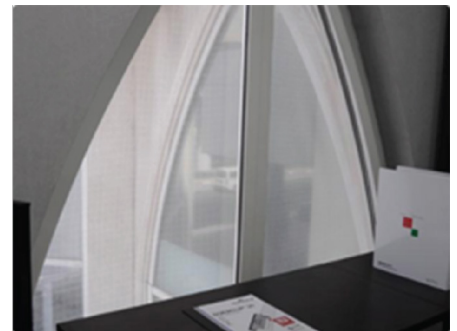
Types



Roller Shades



Vertical Shades



Fitted Frame