


FEATURES

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High Light Transmission: Glass with high light transmission allows more solar energy, including visible light and infrared radiation, to pass through, maximizing natural light and heat in a space.
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Color Neutrality: Glass without a green tint provides accurate color representation, preserving the true colors of objects and scenes viewed through it.
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Reduced Light Reflection: Glass with reduced light reflection minimizes glare, improving visibility and providing clearer views in environments with excessive sunlight or artificial lighting.
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Longer Lasting: Glass with reduced spontaneous breakage from impurities offers enhanced durability, ensuring safety and reducing maintenance costs.

MECHANICAL INFORMATION

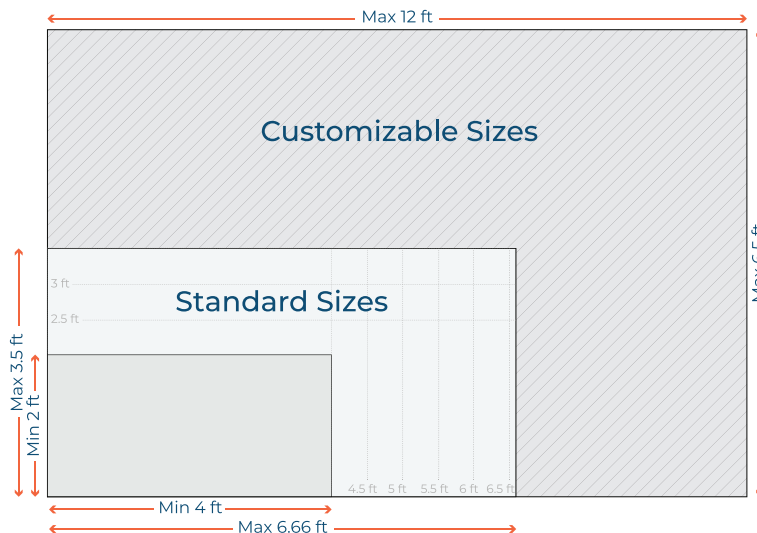
	Imperial	Metric
Thickness	0.16 ± 0.008in	4.0 ± 0.2mm
Dimensional Tolerance	±0.04in	±1.0mm
Density	0.09lbs/in ³	2.5gm/cm ³
Corner	Radius, Chamfer or cut (0.04-0.16in)	Radius, Chamfer or cut (1.0-4.0mm)
Overall Bow / Warp (EN 12150-1:2015)	0.16in / 39.37in	4.0mm/M / 990mm/M
Local Warp (EN 12150-1:2015)	0.002in / 11.81in	0.5mm / 300mm
Bending Strength (EN 12150-1:2015)	516.06lb/in	90N/mm
Iron Content (AAS)	<120 ppm	
Edge	At least seamed	
Scratch Hardness (Mohs)	5	
Fragmented Particles in 50x50mm (If Tempered)(EN 12150-1:2015)	Min 40 pcs	



**Low Iron
Solar Glass**
4.0mm Satin Glass



GLASS SIZE CAPABILITIES

Mitrex offers Solar Panels in virtually any size. Our standard panel sizes range from 2-3.5 FT (0.60 - 1.06 M) by 4 - 6.66 FT (1.21 - 2.02 M). When larger panels are needed, we also offer customized panels that can be a maximum of 6.5 FT (1.98 M) by 12 FT (3.65 M).



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GLASS QUALITY (EN 572-5:2012/5.2.1)

SPHERICAL BUBBLES/CORE/SOLID INCLUSIONS PER 1M ² /39.37IN			SCRATCHED PER 1M ² /39.37IN MAX ALLOWED			
Diameter		Max Allowed	Width	Length		
Imperial	Metric			≤ 0.2in / ≤ 5.0mm	> 0.2 ≤ 0.4in / > 5.0 ≤ 10.0mm	> 0.4in / > 10.0mm
≤ 0.02in	≤ 0.5mm	Unlimited	< 0.04in / < 1.0mm	4	2	1
> 0.02in ≤ 0.06in	> 0.5mm ≤ 1.5mm	6	> 0.04in / > 1.0mm	0	0	0
> 0.06in ≤ 0.12in	> 1.5mm ≤ 3.0mm	2				
> 0.12in	> 3.0mm	0				

LONGITUDINAL BUBBLES PER 1M ² /39.37IN MAX ALLOWED			
Width	Length		
	≤ 0.4in / ≤ 10.0mm	> 0.4 ≤ 0.99in / > 10.0 ≤ 25.0mm	> 0.99in / > 25.0mm
< 0.04in / < 1.0mm	4	2	0
> 0.04 ≤ 0.08in / > 1.0 ≤ 2.0mm	2	0	0
> 2.0mm / > 0.08in	0	0	0

OPTICAL CHARACTERISTICS

TRANSMITTANCE AND REFLECTANCE VALUES AT AM 1.5, 380-1100 nm				
Surface Finish	Thickness		Transmittance	Reflectance
	Imperial	Metric		
Satin	0.16in	4.0mm	91%	8%

DIFFUSION PROPERTIES ACCORDING TO ASTM D1003-13					
Surface Finish	Thickness		Luminous Transmittance*	Diffuse Transmittance**	Haze***
	Imperial	Metric			
Satin	0.16in	4.0mm	74.9%	9.8%	13.1%

***LUMINOUS TRANSMITTANCE:** Ratio of transmitted light to the incident light influenced by absorption and reflection.

****DIFFUSE TRANSMITTANCE:** Portion of light that is scattered/diffused by the glass.

*****HAZE:** Percentage of transmitted light which deviates more than 2.5° from the incident beam on average.

NOTES:

1. All aforementioned glass is monolithic with texture on side 1 (if any).
2. Sunny side aesthetic coatings are not included in this data and will affect the results.