3.2mm Low Iron Solar Glass

Clear, Satin & Matte-Matte/Prismatic Glass

Features

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.

Color Neutrality: Glass without a green tint provides accurate color representation, preserving the true colors of objects and scenes viewed through it.

Reduced Light Reflection: Glass with reduced light reflection minimizes glare, improving visibility and providing clearer views in environments with excessive sunlight or artificial lighting.

Longer Lasting: Glass with reduced spontaneous breakage from impurities offers enhanced durability, ensuring safety and reducing maintenance costs.

Glass Shapes Capabilities

Your building is a mosaic of solar facade panels, each a distinct masterpiece, with options ranging from the elegance of perfect circles to the sharp sophistication of triangles, to hexagons mirroring the precision of nature's honeycombs, and even more shapes that dare to defy convention.





Glass Size Capabilities

Mitrex offers Solar panels in virtually any size. Our standard panel sizes range from 80 in by 39 in. When larger panels are needed, we also offer customized panels that can be a maximum of 125 in by 80 in.



•	Mechanical Information		
		Imperial	Metric
	Thickness	0.13 ± 0.008in	3.2 ± 0.2mm
	Weight	1.54lb/SQFT	7.53kg/m²
	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	
	Scratch Hardness (Mohs)	5	
	Fragmented Particles in 50×50mm (If Tempered) (EN 12150-1:2015)	Min 40 pcs	
	Edge	At least seamed	

Glass Quality (EN 572-5:2012/5.2.1)

•	Spherical Bubbles/Core/Solid Inclusions Per 1m ² /39.37in			•	 Scratched Per 1m²/39.37in Max Allowed 				
	Imperial Diameter	Metric Diameter	Max Allowed		Width	Length			
	≤ 0.02in	≤ 0.5mm	Unlimited			≤ 0.2in / ≤ 5.0mm	> 0.2 ≤ 0.4in /	> 0.4in / > 10.0mm	
	> 0.02in ≤ 0.06in	> 0.5mm ≤ 1.5mm	6	< 0.01in / < 10mm	1	> 0.0 ≤ 10.0mm	1		
	> 0.06in ≤ 0.12in	> 1.5mm ≤ 3.0mm	2	> 0.04in / > 1.0m	> 0.04in / > 1.0mm	-	0	0	
	> 0.12in	> 3.0mm	0		20.04117 21.011111	0	0	0	

• Longitudinal Bubbles Per 1m²/39.37in 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			
$> 0.04 \le 0.08$ in / $> 1.0 \le 2.0$ mm	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		
Clear	0.12in	3.2mm	92%	8%
Satin	0.12in	3.2mm	91%	8%
Matte-Matte / Prismatic	0.12in	3.2mm	94%	6%

• Diffusion Properties According To ASTM D1003-13

Surface Finish	Thickness		Luminous Transmittance*	Diffuse Transmittance**	Haze***
	Imperial	Metric			
Clear	0.12in	3.2mm	91.8%	1.6%	0.6%
Satin	0.12in	3.2mm	75.4%	9.7%	12.9%
Matte-Matte / Prismatic	0.12in	3.2mm	92.3%	2.4%	1.2%

*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:

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

