



Flat Solar Glass Group Co., Ltd.
Zhejiang Jiafu Glass Co., Ltd.

**Solar Glass
Specification**

Properties	FSG Suntex® & FSG Sunlite® (Patterned)			
Base glass material				
Glass Properties				
Maximum iron content	≤ 0,012% Fe ₂ O ₃			
Glass thicknesses/tolerance +/-0,2mm	3,2mm and 4,0mm			
Solar energy transmittance T_E in % Measurement by UV-Vis-Spectrometer (acc. ISO 9050:1990 (E) and DIN 67507 / 6.3., factors acc. ISO 9845/1, 300-2500 nm, AM 1.5)		Sunlite (MM)	Suntex (SM)	
	3,2mm	> 91,6	> 91,6	
	4,0mm	> 91,5	> 91,5	
Weight	2,5 x glass thickness in kg/m ²			
Surface condition (Surface Roughness Tester Mitutoyo SJ-201P)	MM Glass front and back side matt Ra 04-1,9µm	SM Glass front side matt and back side patterned Ra (matt) 04-1,9µm		
Glass quality per square meter (S): Test criteria (EN 572-5; 1994 / 5.1.1.1): Viewing distance 1,5 m vertical to the sheet parallel to a matt grey sheet at a distance of 3m in diffuse daylight	Spherical Bubbles : < 0,5mm unlimited			
	0,5-1.0mm	6		
	1.0-2.0mm	4		
	> 2.0mm	0		
	Longitudinal Bubbles			
	Length (mm)	4~10	10~25	>25
	Width < 0.8mm	4	1	0
	Width 1-1,5mm	0	0	0
	Width > 1,5mm	0	0	0
	Scratches:			
Scratch length (mm)	< 5	5~10	10~25	
Scratch width < 1 mm,	4	2	0	
Scratch width > 1 mm	0	0	0	
Dimensional accuracy				
Dimensional tolerance	+/-1,0mm			
Angularity	Maximum diagonal difference 3mm			
Edge processing	Ground C-edge			
Shells L x W x D	Maximum permissible 2 x 1,5 x 1mm			
Cut corners	Maximum 3mm			
Planity				
General bow	0.3%			
Local bow	0.5mm/300mm			
Mechanical Properties				
Compressive strength: Fully tempered + Heat-strengthened glass	700-900 N/mm ²			
Mechanical resistance:	90 N/mm ²			
Minimum values from the particle count: Fully tempered glass: Number of fragments per a test area of 50 x 50 mm	3,2mm	minimum	40	
	4,0mm	minimum	40	
	Longest fragment: 75mm			
Heat resistance				
Thermal resistance	Permanent temperature resistance up to 250°C			