



SUNTEX® SOLAR GLASS SPECIFICATIONS

Properties	SUNTEX® (Matt/Patterned)				
Base glass material					
Glass Properties					
Maximum iron content	≤ 0,01% Fe ₂ O ₃				
Glass thicknesses/tolerance ± 0,2mm	3,2mm and 4mm				
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)		MM	SM		
	3,2mm	> 91,1	> 91,1		
	4mm	> 91,0	> 91,0		
Weight	2,5 x glass thickness in kg/m ²				
Surface condition (Surface Roughness Tester Mitutoyo SJ-201P)	Satin Matt Glass Front surface matt finish rear surface satin finish R _a (matt) 04-1,9µm				
Glass quality per sheet: 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	Bubbles/Core/Solid inclusions < 0,5mm unlimited				
	0,5-2mm		2		
	2-3mm		0		
	> 3mm		0		
	Longitudinal Bubbles/Core/Solid inclusions				
	Length (mm)	4-10	10-25	>25	
	Width < 1mm	4	1	0	
	Width 1-1,5mm	2	0	0	
	Width > 1,5mm	0	0	0	
	Scratches:				
	Scratch length		<5mm	5-10mm	10-25mm
	Scratch width < 1 mm		4	2	0
	Scratch width > 1 mm		0	0	0
Dimensional accuracy					
Dimensions* ¹ rectangular	3,2mm	max. 2100 x 1200mm min. 100 x 250mm			
	4,0mm	max. 2500 x 1500mm min. 100 x 250mm			
Dimensional tolerance* ²	± 1,0mm				
Angularity	Maximum diagonal difference 3mm				
Edge processing	Seamed as minimum				
Shells L x W x D	Maximum permissible 10 x 1,5 x 1mm				
Cut corners	Maximum 3mm				
Planity* ³					
General bow	4mm/m				
Fully tempered glass + Heat-strengthened glass					
Local bow Fully tempered glass	0,5mm/300mm				
Heat-strengthened glass	0,5mm/300mm				
Mechanical Properties* ³					
Compressive strength: Fully tempered + Heat-strengthened glass	700-900 N/mm ²				
Mechanical resistance: Fully tempered glass (bending strength)	90 N/mm ²				
Heat-strengthened glass	55 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				
Minimum values from the particle count: Heat-strengthened glass Test area equals test sheet 1100 x 360mm	Max. 3 isle shaped pcs.per test sheet				
	area/mass equivalent: isle shaped pcs. + fragments: ≤ 5000mm ²				
	Unremovable dirt is not permitted				
Heat resistance					
Thermal resistance	Permanent temperature resistance up to 250°C				