

Properties	Solar Patterned Glass				
Base glass material					
Glass Properties					
Maximum iron content	$\leq 0,012\% \text{ Fe}_2\text{O}_3$				
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)	Suntex (SM)				
	3,2mm	> 91,5			
	4,0mm	> 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				