

**1. Items and Surface patterns**

Low - iron solar glass	Surface patterns
Sol - P/M	Prismatic/Matt - finished
Sol - M/M	Matt - finished/Matt - finished

**2. Specification**

Thickness: 3.2mm & 4.0mm  
 Dimension: Max:2040\*3350 mm (annealed) 1200\*2200mm (tempered)  
 Edge: Arc shape ground (C - Cut)  
 Corner: Cut

Note: Edge and Corner apply to tempered glass only.

**3. Chemical Composition**

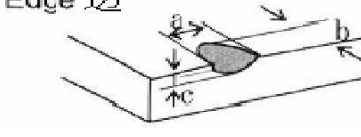
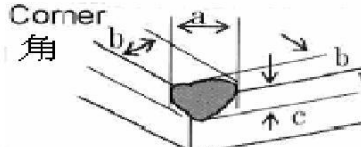
Chemical Composition	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O+K <sub>2</sub> O	CaO	MgO	Fe <sub>2</sub> O <sub>3</sub>	Sb <sub>2</sub> O <sub>3</sub>	CeO	As <sub>2</sub> O <sub>3</sub>
Rate	70~74%	≤2%	≤15%	≤11%	≤4%	≤120ppm	≤0.5%	N.D.	N.D.

Note: N.D. means not detected.

**4. Quality Properties**

**4.1 Annealed glass**

No.	Items	Standard				Testing Method
1	Thickness Tolerance	3.2mm:±0.2mm		4.0mm:±0.25mm		According to JC/T 511 - 2002
2	Dimension Tolerance	±2.0mm				
3	Diagonal Tolerance	≤0.2%				
4	Overall Bow/warp	≤0.2%				
5	Local warp	0.7mm/300mm				
6	Body Bubble	Diameter(mm)	2≤L≤5	5 < L < 10	10≤L < 15	
		allowed	4.0 per sqm	1.0 per sqm	0	
7	Long Bubble	Length	4 to 10mm	10 to 25mm		
		Width<1mm	Num<8	Num<2		
		1mm<Width<1.5mm	Num<4	Num<1		
8	Open bubbles	permitted				
9	Bubbles Density	The distance between 2 bubbles must be more than 300mm				
10	Scratches	Length in mm	<5mm	5 to 10mm		
		Width<1mm	Num<4	Num<1		
11	Lines	length(mm)	100≤L<200, W<1.0			
		Allowed strips	1.0 per square meter			

12	Roll Scar	length(mm)	$2 \leq L < 5$	$L \geq 5$	
		Allowed	1.0 per square meter	0	
13	Paper Mark	Not allowed after washing twice			According to JC/T 511 - 2002
14	Edge Defect		1) $a \leq 12\text{mm}$ ; $b \leq \text{glass thickness}$ ; $c \leq \text{glass thickness}$ ; 2) less than 2 place each side;		
15	Corner Defect		1) $a \leq 12\text{mm}$ ; $b \leq \text{glass thickness}$ ; $c \leq \text{glass thickness}$ ; 2) less than 2 place each side;		According to JC/T 511 - 2002
16	Stone	Not allowed if the diameter more than 0.3mm			
17	Shells	2×2×1mm			
18	Dark Line	Not allowed if visible			
19	stain	Not allowed after washing twice			
20	Pattern error	Not allowed if visible			
21	Mildewed	Not allowed after washing twice			

#### 4.2 Tempered glass

No.	Items	Standard	Testing Method
1	Thickness Tolerance	3.2mm:±0.2mm 4.0mm: ±0.25mm	According to JC/T 511 - 2002
2	Dimension Tolerance	±1.0mm	
3	Diagonal Tolerance	≤0.2%	
4	Overall Bow/warp	≤0.2%	
5	Local warp	0.5mm/300mm	
6	Fragmentation	1) 3.2mm: min 15pcs; 2) 4.0mm: min 30pcs; 3) The longest particle shall not exceed 100mm.	According to GB 15763.2 - 2005
7	Thermal Durability	0~250°C unchanged	
8	Balling Test	227g steel ball, 1m, no breakage	

Note: For tempered glass, for the other quality properties see item 4.1.

#### 4.3 AR Coating glass

Light Transmittance (380~1100nm)	≥93.5% (For both 3.2mm and 4.0mm, according to ISO 9050:2003)
Pencil Hardness	≥ 4H
Coating Adhesion	Class 0
Anti - acid	Transmittance Loss less than 1%
Salt Spray	Transmittance Loss less than 1%
Damp Heat test (double 85)	Mouldle Max Power Loss less than 5%
Exposure to UV Light	Mouldle Max Power Loss less than 5%

Note: For AR Coating Glass, for the other quality properties see item 4.1 & 4.2.

---

## 5. Certificate

- 1) ISO9001:2008
- 2) Rohs
- 3) CE
- 4) CCC
- 5) SPF U1 (Test report of transmittance from SPF)

## 6. Packing

- 1) Paper pallet for tempered glass and AR tempered glass (horizontal storage)



Strictly Confidential