

## The technical requirements of the clear transparent float glass

1 The shape of float glass should be square or rectangle, the allowed deviation of the length and width should accord with table1.

**Table1 The allowed deviation of the size(mm)**

Thickness	The allowed deviation	
	The size less than 3000	Size 3000-5000
2, 3, 4	± 2	—
5, 6		± 3
8, 10	+2, -3	+3, -4
12, 15	± 3	± 4
19	± 5	± 3

2 The allowed deviation of the thickness should accord with table2. The deviation of the thickness of 2mm and 3mm should be within 0.2mm, while that of 4mm, 5mm, 6mm, 8mm and 10mm should be within 0.3mm.

**Table2 The allowed deviation of the thickness(mm)**

Thickness	The allowed deviation
2, 3, 4, 5, 6	± 0.2
8, 10	± 0.3
12	± 0.4
15	± 0.6
19	± 1.0

3 The appearance quality of the architectural grade float glass should accord with table3.

**Table3 The appearance quality of architectural grade float glass**

Kind of bug	Request of the quality			
Air bubble	Length and the allowed scope			
	Length, L 0.5mm ≤ L ≤ 1.5mm	Length, L 1.5mm < L ≤ 3.0mm	Length, L 3.0mm < L ≤ 5.0mm	Length, L L > 5.0mm
	5.5×s, entries	1.1×s, entries	0.44×s, entry	0, entry
Inclusion	Length and the allowed scope			
	Length, L 0.5mm ≤ L ≤ 1.0mm	Length, L 1.0mm < L ≤ 2.0mm	Length, L 2.0mm ≤ L ≤ 3.0mm	Length, L L > 3.0mm
	2.2×s, entries	0.44×s, entry	0.22×s, entry	0, entry
Density of the punctual defect	The air bubble longer than 1.5mm and the inclusion longer than 1.0mm: the space between air bubble and air bubble, between inclusion and inclusion or between air bubble and inclusion should be larger than 300mm.			
Crack	According to 4.3.1 check, it should not be seen by naked eye			
Tear	The allowed length and width and its scope			
	Width 0.5mm, length 60mm, 3×s entries			
Optic distortion	Angle of incidence: 2mm 40°, 3mm 45°, more than 4mm 50°			
Surface flaw	According to 4.3.1 check, it should not be seen by naked eye			
Section defect				

**Note:** S is the area of glass plate that use m<sup>2</sup> as its unit, reserving double-digit after the decimal. The allowed number of air bubbles, inclusions and cracks is the numerical value that coefficients multiply s, and reserved as whole number according to GB/T 1870.

4.The thicknesses of motor grade float glass are mainly of 2mm, 3mm, 4mm, 5mm, and 6mm, and their appearance quality should accord with table4.

**Table4 The appearance quality of motor grade float glass**

Kind of bug	Request of the quality			
Air bubble	Length and the allowed scope			
	Length, L 0.3mm≤L≤0.5mm	Length, L 0.5mm<L≤1.0mm	Length, L 1.0mm<L≤1.5mm	Length, L L>1.5mm
	3×s, entries	2×s, entries	0.5×s, entry	0, entry
Inclusion	Length and the allowed scope			
	Length, L 0.3mm≤L≤0.5mm	Length, L 0.5mm<L≤1.0mm	Length, L L>1.0mm	
	2×s, entries	1×s, entry	0, entry	
Density of the punctual defect	The air bubble longer than 1.0mm and the inclusion longer than 0.5mm: the space between air bubble and air bubble, between inclusion and inclusion or between air bubble and inclusion should be larger than 300mm.			
Crack	According to 4.3.1 check, it should not be seen by naked eye			
Tear	The allowed length and width and its scope			
	Width 0.2mm, length 40mm, 2×s entries			
Optic distortion	Angle of incidence: 2mm 45°; 3mm 50°; 4mm, 5mm, 6mm 60°			
Surface flaw	According to 4.3.1 check, it should not be seen by naked eye			
Section defect				
Note: S is the area of glass plate that use m <sup>2</sup> as its unit, reserving double-digit after the decimal. The allowed number of air bubbles, inclusions and cracks is the numerical value that coefficients multiply s, and reserved as whole number according to GB/T 1870.				

5. The thickness of mirror grade float glass are mainly of 2mm, 3mm, 5mm, 6mm, and their appearance quality should accord with table 5.

**Table 5 The appearance quality of motor grade float glass**

Kind of bug	Request of the quality							
Air bubble	Length of and the allowed scope of bugs of 2mm glass				Length and the allowed scope of bugs of 3mm,5mm, and 6mm glass			
	0.3mm≤L≤1.0mm	0.5mm<L≤1.0mm	1.0mm<L≤1.5mm	L>1.5mm	0.3mm≤L≤0.5mm	0.5mm<L≤1.0mm	1.0mm<L≤1.5mm	L>1.5mm
	2×s, entries	1×s, entry	0.5×s, entry	0,entry	3×s, entries	2×s, entries	0.5×s, entry	0, entry
Inclusion	Length and the allowed scope of 2mm glass				Length and the allowed scope of 3mm, 5mm, 6mm glass			

	0.3mm≤L ≤0.5mm	0.5mm<L≤ 1.0mm	L>1.0mm	0.3mm≤L≤ 0.5mm	0.5mm<L≤ 1.0mm	L>1.0mm
	2×s, entries	0.5×s, entry	0, entry	1×s, entry	0.5×s, entry	0, entry
Density of the punctual defect	The space between air bubble that is longer than 0.5mm inclusion and inclusion that is longer than 0.5mm should be larger than 300mm.					
Crack	According to 4.3.1 check, it should not be seen by naked eye					
Tear	The allowed length and width and its scope					
	Width 0.1mm, length 30mm, 2×s entries					
Optic distortion	Angle of incidence: 2mm 45°; 3mm 55°; 4mm, 5mm, 6mm 60°					
Surface flaw	According to 4.3.1 check, it should not be seen by naked eye					
Section defect						
Note: S is the area of glass plate that use m <sup>2</sup> as its unit, reserving double-digit after the decimal. The allowed number of air bubbles, inclusions and cracks is the numerical value that coefficients multiply s, and reserved as whole number according to GB/T 1870.						

6 The difference between diagonal should be no more than 0.2% of the average length of diagonal.

7 The camber of float glass should be no more than 0.2%.

8 The transmission rate of visible light of float glass should be no less than the data in table 6.

Thickness, mm	Transmission rate of visible light, %
2	89
3	88
4	87
5	86
6	84
8	82
10	81
12	78
15	76
19	72

9 About the float glass with special request, it should be confirmed by the supplier and customer.