

JAS (Inspection & Testing) Ltd.

A

Test Report

For The Glass Panels

(To BS 952: Part 1)

And (To BS EN 572-1 & 2)

Further Process by

广东中融玻璃科技有限公司

Prepared By: JAS (Inspection & Testing) Ltd.

Test Date: 5th August 2024

Report Date: 6th August 2024

Our Ref.: J24-165-R01-240906



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1. INTRODUCTION

Test Consultant	JAS (Inspection & Testing) Ltd.
Tester	Mark Lau
Glass Manufacturer	广东中融玻璃科技有限公司
Address	肇庆高新区迎宾大道 6 号之二
Date of Specimen Received	4 th August 2024
Test Date	5 th August 2024
Standards	BS 952: Part 1: 1995 'Classification of Glass for Glazing' BS EN 572: 1995 'Glass in building – Basic soda lime silicate glass products' Part 1: Definitions and general physical and mechanical properties Part 2: Float Glass
Identification of the specimen	Clear Glass 6, 8, 10 & 15mm
Room Temperature	21°C
Humidity	90%
Condition period	4 hours



2. TEST UNIT

2.1 Sizes of the glass specimen units for the test were 300mm +/-5mm by 300mm +/-5mm.

All test specimen dimensions were checked before the test and were all within +/-5mm of the proposed dimension.

2.2 The following glass specimens have been tested.

Glass Thickness	Type	No. of Specimen
6mm	Clear Float	4
8mm	Clear Float	4
10mm	Clear Float	4
15mm	Clear Float	4



3. METHOD OF THE TESTS ON GLASS SPECIMEN

The following tests were conducted of the glass specimen listed in section 2.

3.1 Measurement of Glass Thickness

All the thicknesses were scaled with a caliper whose accuracy is 0.01mm. Each sample was checked for 3 locations and the average value was recorded.

3.2 Measurement of Specific Weight of the Glass

All the glass weights were measured with a digital weighting scale whose accuracy is 1g.

3.3 Measurement of Transmittance of the Float Glass

All the Transmittances of the Float Glass were measured with a digital Transmittance meter in %.

3.4 Visual Check for Defects of the Glass

Place the pane of glass to be examined vertically 4.5m in front of the parallel to the screen. Arrange the point of observation 4.5m from the glass, keeping the direction of observation normal to the glass surface.

3.5 Visual Check for Optical faults of the Glass

A zebra board is used for the visual check for the optical faults of the glass.



4. TEST RESULTS

4.1 6mm Clear Float Glass

6mm Clear Float Glass					
Specimen Number		1	2	3	4
Thickness	Thickness in mm (4 Locations)	5.97	5.95	5.96	5.89
		5.96	5.94	5.96	5.91
		5.97	5.93	5.98	5.92
		5.93	5.95	5.96	5.95
	Average Thickness (mm)	5.96	5.94	5.97	5.92
	Deviation (mm)	-0.04	-0.06	-0.03	-0.08
	Average Deviation (mm)	-0.05			
	Tolerance BS EN 572-2-2012	±0.20 mm			
Specific Weight	Measured Dimension in mm	300x300	300x300	300x300	300x300
	Measured Weight (g)	1322	1320	1324	1318
	Specific Weight (kg/m²)	14.69	14.67	14.71	14.64
	Average Specific Weight (kg/m²)	14.68			
	Approximate mass/unit area specified in BS952:1995	15.00 (kg/m²)			
Transmittance	Measured Transmittance	0.89	0.88	0.88	0.88
	Average	0.88			
	Min. Requirement BS EN 572-1-2012+A1-2016	0.85			
Visual Faults	Optical faults	None	None	None	None
	Visual faults	None	None	None	None
	Spot faults	None	None	None	None
	Linear/extended faults	None	None	None	None
Result: Satisfactory					



4.2 8mm Clear Float Glass

8mm Clear Float Glass					
Specimen Number		1	2	3	4
Thickness	Thickness in mm (4 Locations)	7.82	7.81	7.87	7.79
		7.82	7.76	7.79	7.80
		7.85	7.83	7.89	7.81
		7.74	7.78	7.82	7.80
	Average Thickness (mm)	7.81	7.80	7.84	7.80
	Deviation (mm)	-0.19	-0.20	-0.16	-0.20
	Average Deviation (mm)	-0.19			
	Tolerance BS EN 572-2-2012	±0.30 mm			
Specific Weight	Measured Dimension in mm	300x300	300x300	300x300	300x300
	Measured Weight (g)	1733	1730	1738	1730
	Specific Weight (kg/m ²)	19.26	19.22	19.31	19.22
	Average Specific Weight (kg/m ²)	19.25			
	Approximate mass/unit area specified in BS952:1995	20.00 (kg/m ²)			
Transmittance	Measured Transmittance	0.87	0.87	0.88	0.87
	Average	0.87			
	Min. Requirement BS EN 572-1-2012+A1-2016	0.83			
Visual Faults	Optical faults	None	None	None	None
	Visual faults	None	None	None	None
	Spot faults	None	None	None	None
	Linear/extended faults	None	None	None	None
Result: Satisfactory					

**4.3 10mm Clear Float Glass**

10mm Clear Float Glass					
Specimen Number		1	2	3	4
Thickness	Thickness in mm (4 Locations)	9.86	9.86	9.92	9.84
		9.87	9.81	9.84	9.85
		9.90	9.88	9.94	9.86
		9.79	9.83	9.87	9.85
	Average Thickness (mm)	9.86	9.85	9.89	9.85
	Deviation (mm)	-0.14	-0.15	-0.11	-0.15
	Average Deviation (mm)	-0.14			
	Tolerance BS EN 572-2-2012	±0.30 mm			
Specific Weight	Measured Dimension in mm	300x300	300x300	300x300	300x300
	Measured Weight (g)	2169	2170	2175	2166
	Specific Weight (kg/m²)	24.10	24.11	24.17	24.07
	Average Specific Weight (kg/m²)	24.11			
	Approximate mass/unit area specified in BS952:1995	25.00 (kg/m²)			
Transmittance	Measured Transmittance	0.85	0.86	0.86	0.85
	Average	0.86			
	Min. Requirement BS EN 572-1-2012+A1-2016	0.81			
Visual Faults	Optical faults	None	None	None	None
	Visual faults	None	None	None	None
	Spot faults	None	None	None	None
	Linear/extended faults	None	None	None	None
Result: Satisfactory					



4.6 15mm Clear Float Glass

15mm Clear Float Glass					
Specimen Number		1	2	3	4
Thickness	Thickness in mm (4 Locations)	14.73	14.76	14.81	14.80
		14.76	14.72	14.73	14.79
		14.78	14.80	14.81	14.79
		14.71	14.73	14.76	14.75
	Average Thickness (mm)	14.75	14.75	14.78	14.78
	Deviation (mm)	-0.25	-0.25	-0.22	-0.22
	Average Deviation (mm)	-0.24			
	Tolerance BS EN 572-2-2012	±0.50 mm			
Specific Weight	Measured Dimension in mm	300x300	300x300	300x300	300x300
	Measured Weight (g)	3294	3295	3298	3298
	Specific Weight (kg/m²)	36.60	36.61	36.64	36.64
	Average Specific Weight (kg/m²)	36.63			
	Approximate mass/unit area specified in BS952:1995	37.50 (kg/m²)			
Transmittance	Measured Transmittance	0.83	0.83	0.82	0.82
	Average	0.83			
	Min. Requirement BS EN 572-1-2012+A1-2016	0.76			
Visual Faults	Optical faults	None	None	None	None
	Visual faults	None	None	None	None
	Spot faults	None	None	None	None
	Linear/extended faults	None	None	None	None
Result: Satisfactory					



5. TEST RESULTS (SUMMARY)

SPECIMEN	TEST	RESULTS	COMMENT
Clear Float Glass 6, 8, 10 & 15mm	Thickness	All within allowable tolerance	Satisfactory
	Specific Weight	For reference only	
	Transmittance	For reference only	
	Visual faults	None	



6. COMMENT

The following listed Glasses that further processed by 广东中融玻璃科技有限公司 were satisfy the requirements set out in:

BS952: Part 1: 1995, BS EN572: Part 1:1995 and Part 2:1995

Clear Glass of thicknesses of 6mm, 8mm, 10mm & 15mm.

All the tests were satisfactorily conducted and conclusive.

I certify this to be a true record of the test.

Tested by

Mr. Mark Lau
Test Engineer

Certified by



Mr. Sam Lau
Managing Director

Appendix

(i) Photo



**Glass Test
Photo Record**
广东中融玻璃科技有限公司

Report Ref.:
J24-165-R01-240906

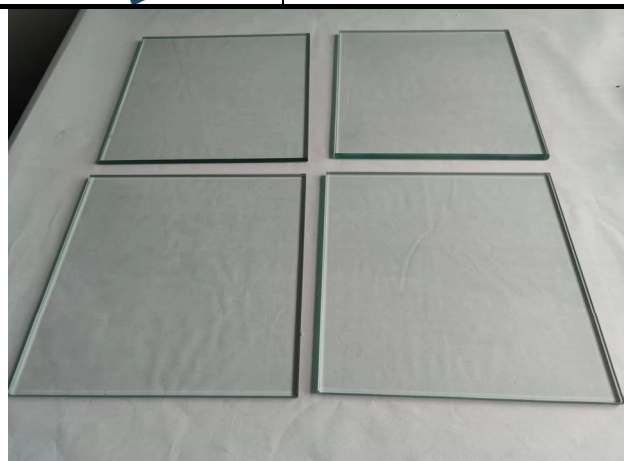


Photo 1

The Sizes of the Glass Specimens were checked.



Photo 2

The Thickness of the specimen was checked.



Photo 3

The Thickness of the specimen was checked.



Photo 4

The Weight of the Specimen was checked.



Photo 5

Visual check for the spot faults.

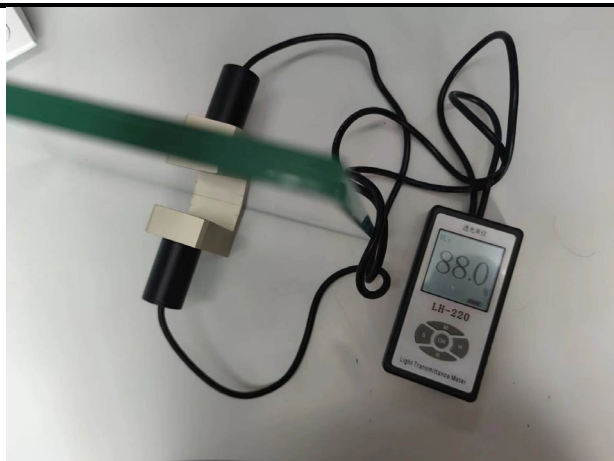


Photo 6

The Transmittance of Specimen was checked.