

TEST REPORT

No. : GZIN2003005289CM

Date : Mar 18, 2020

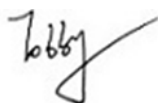
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Sample Name : NON ASBESTOS FIBER CEMENT BOARD
 Product Specification : 2440*1220*6mm
 Manufacturer : ZHAOQING SANLE INTEGRATED HOUSING MANUFACTURING CO., LTD.
 Buyer : ZHAOQING SANLE INTEGRATED HOUSING MANUFACTURING CO.,LTD.

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Date of Receipt : Mar 02, 2020
 Testing Start Date : Mar 02, 2020
 Testing End Date : Mar 18, 2020
 Test result(s) : For further details, please refer to the following page(s)
 (Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
 SGS-CSTC Standards Technical
 Services Co., Ltd. GZ Branch Testing
 Center



Toby Yang
 Authorized signatory



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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Apparent Density	AS/NZS 2908.2:2000 Section 8.1.2.2	1.44g/cm ³	Pass
2	Tolerance on Length, Width, and Thickness	AS/NZS 2908.2:2000 Section 8.1.1.2 & 8.1.1.3	See Test Result	Pass
3	Bending Strength	AS/NZS 2908.2:2000 Section 8.1.2.1 and Client's requirement	14.4MPa	Pass
4	Asbestos	With reference to NIOSH 9000:2015 / ISO 22262-1:2012, Analysis was performed by XRD / PLM	Negative	/
5	Fire tests on building materials, components and structures	AS 1530.1-1994 R2016 Part1	NOT DEEMED COMBUSTIBLE	/

Note: Pass : Meet the requirements;
Fail : Does not meet the requirements;
/ : Not Apply to the judgment.



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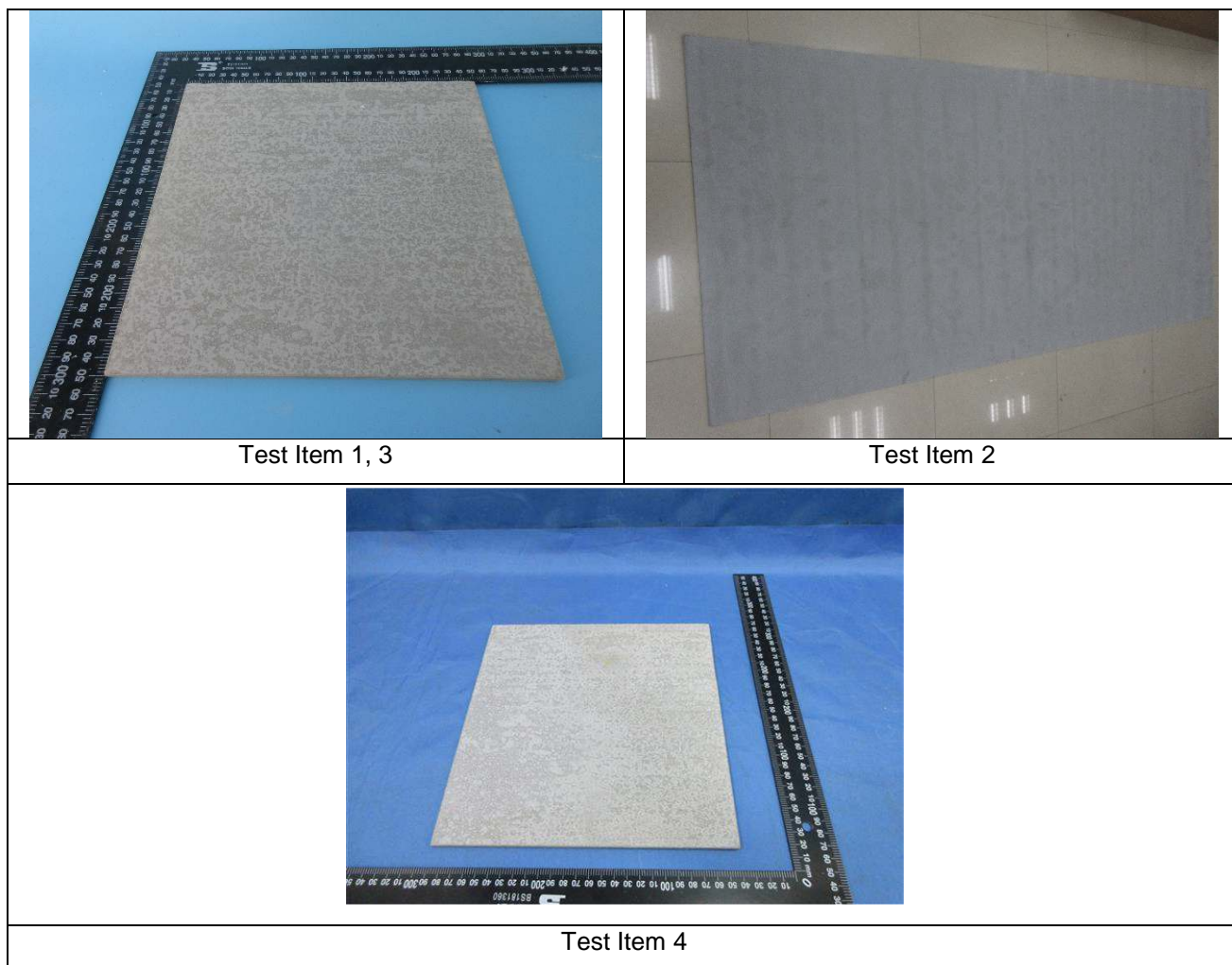
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Original Sample Photo:



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Test Item 1: Apparent Density

Sample Description: See photo

Test Method: AS/NZS 2908.2:2000 Section 8.1.2.2

Test Condition:

Immerse in water at 22°C for 48h, Dry in an oven at 105±5°C for 24h

Test Results:

Apparent density: 1.44g/cm³

Client's Requirement: 1.4-1.5g/cm³

Conclusion: Pass

Test Item 2: Tolerance on Length、Width and Thickness

Sample Description: See photo

Test Method: AS/NZS 2908.2:2000 Section 8.1.1.2 & 8.1.1.3

Test Condition:

Specimen nominal dimensions: 2440mm×1220mm×6mm

Test Results:

Test Item	Test Result	Requirement in AS/NZS 2908.2:2000 Section 5.1.3	Conclusion
Length	Average:2438.0mm Deviation: -2.0mm	d>1600mm: ±8mm	Pass
Width	Average:1220.0mm Deviation: 0	1000mm<d≤1600mm: ±0.5%	Pass
Thickness	Average:5.90mm Deviation: 0.1mm	e≤6mm: ±0.6mm e>6mm: ±10%	Pass



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Test Item 3: Bending Strength

Sample Description: See photo

Test Method: AS/NZS 2908.2:2000 Section 8.1.2.1 and Client's requirement

Test Condition:

Sample classification: Type B

Conditioning: (23±5) °C, (50±10)%RH for 7 days

Specimen dimensions: 250mm×250mm×5.8mm

Test span: 215mm

Testing speed: 5mm/min

Test Results:

Test Item	Test Result	Client's Requirement	Conclusion
Bending Strength	14.4MPa	>10MPa	Pass

Test Item 4: Asbestos

Sample Description: Offwhite board

Test Method: With reference to NIOSH 9000:2015 / ISO 22262-1:2012, Analysis was performed by XRD / PLM.

Test Result:

Test Item(s)	CAS NO.	Unit	MDL	001
Chrysotile	12001-29-5/13220 7-32-0	% (m/m)	0.1	Negative
Amosite	12172-73-5	% (m/m)	0.1	Negative
Crocidolite	12001-28-4	% (m/m)	0.1	Negative
Anthophyllite	77536-67-5	% (m/m)	0.1	Negative
Tremolite	77536-68-6	% (m/m)	0.1	Negative
Actinolite	77536-66-4	% (m/m)	0.1	Negative

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

(5) Negative means the absence of asbestos, Positive means the presence of asbestos.



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Test Item 5: Fire tests on building materials, components and structures

Test Conducted:

This test is conducted accordance with AS 1530.1-1994 R2016 Methods for fire tests on building materials, components and structures Part1: Combustibility test for materials.

I. Sample description:

Thickness of single specimen	About 6 mm
Specimen size	Diameter: 45.0 mm; Height: 6 mm

Remark: Tested specimen consisted of 8 layers of provided sample.

II. Conditioning:

Oven Temperature	(60±5)°C
Duration	24h

Remark: The specimen shall be conditioned in a ventilated oven maintained at (60 ±5)°C for between 20 h and 24 h, and cooled to ambient temperature in a desiccator prior to testing.

III. Criteria of combustibility:

A material shall be deemed to be combustible under any of the following circumstances:

- (a) The mean duration of sustained flaming is other than zero.
- (b) The mean furnace thermocouple temperature rise exceeds 50°C.
- (c) The mean specimen surface thermocouple temperature rise exceeds 50°C

IV. Test results:

No.	Temperature rise			* Total duration of sustained flaming (s)	Mass loss (%)
	Δ T _f (°C)	Δ T _c (°C)	Δ T _s (°C)		
1	2.6	2.5	7.6	0	27.3
2	6.7	2.8	9.5	0	27.6
3	3.0	5.3	6.2	0	27.6
4	1.9	3.1	7.6	0	28.9
5	5.3	2.3	3.1	0	28.0
Average	3.9	3.2	6.8	0	27.9

Remark:

Δ T_f – Furnace thermocouple temperature rise

Δ T_c – Specimen centre thermocouple temperature rise

Δ T_s – Specimen surface thermocouple temperature rise

* calculate and record the mean duration of sustained flaming which is obtained by summing all the individual durations of flaming for 5s or longer and dividing by five.

V. Combustibility: NOT DEEMED COMBUSTIBLE



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STATEMENTS:

These test results relate only to the behavior of the test specimens of the material under the particular conditions of the test, and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

Photo Appendix:



Note: Test Item 5 was carried out by SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch.

***** End of report*****



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