

Sample Name: FIBER CEMENT BOARD

SGS Ref No.:

Product Specification: 1200mm×2400mm

Style/Item No.: /

The above sample(s) was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

Test Requested:

1. AS 1530.1:1994 Methods for fire tests on building materials components and structures -- Part 1: combustibility test for materials.
2. AS/NZS 1530.3:1999 Methods for fire tests on building materials, components and structures, Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release.

Test Results: -- See attached sheet --

Test Period:

Sample Receiving Date : JUN.03, 2024
Test Performing Date : JUN.03, 2024 TO JUN.12, 2024

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Anji Branch



Echo Li
Approved Signatory



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1. AS 1530.1:1994

I. Test Conducted

This test was performed in accordance with AS 1530.1:1994 Methods for fire tests on building materials, components and structures Part 1: combustibility test for materials.

II. Sample details

| | |
|--------------------|---|
| Sample description | FIBER CEMENT BOARD (provided by client) |
| Color | Wheat |
| Specimen size | Ø45×50mm |

III. Conditioning

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

IV. Test Results

| Parameter | Results | | | | | Mean value |
|---|---------|-------|-------|-------|-------|------------|
| | 1 | 2 | 3 | 4 | 5 | |
| Mass loss, (%) | 16.73 | 17.81 | 14.85 | 14.87 | 16.77 | 16.20 |
| Total duration of sustained flaming ¹⁾ , (s) | 0 | 0 | 0 | 0 | 0 | 0 |
| Initial furnace thermocouple temperature, T _{fi} (°C) | 751.6 | 750.4 | 749.8 | 750.3 | 750.2 | |
| Maximum furnace thermocouple temperature, T _{fm} (°C) | 756.5 | 757.4 | 755.9 | 756.3 | 756.6 | |
| Final furnace thermocouple temperature, T _{ff} (°C) | 752.1 | 751.4 | 751.3 | 750.8 | 751.4 | |
| Furnace thermocouple temperature rise, ΔT _f (°C) | 4.4 | 6.0 | 4.6 | 5.5 | 5.2 | 5.1 |
| Maximum specimen surface thermocouple temperature, T _{sm} (°C) | 756.5 | 757.6 | 756.9 | 755.7 | 756.8 | |
| Final specimen surface thermocouple temperature, T _{sf} (°C) | 752.3 | 751.4 | 752.3 | 753.4 | 753.6 | |
| Specimen surface thermocouple temperature rise, ΔT _s (°C) | 4.2 | 6.2 | 4.6 | 2.3 | 3.2 | 4.1 |
| Test duration (min) | 30 | 30 | 30 | 30 | 30 | |

Note: ¹⁾ Disregard any individual duration of flaming less than 5s.

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, ΔT_f, exceeds 50 °C.
- (c) The mean specimen surface thermocouple temperature rise, ΔT_s, exceeds 50 °C.

Sub-Conclusion: According to the test results, the tested sample is classified as **Non-Combustible materials**.



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2. AS/NZS 1530.3:1999

I. Test conducted

This test was performed in accordance with AS/NZS 1530.3:1999 Methods for fire tests on building materials, components and structures, Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release.

II. Sample details

| | |
|---------------|---|
| Description | FIBER CEMENT BOARD (provided by client) |
| Color | Wheat |
| Density | 15.2 kg/m ² |
| Specimen size | 600mm×450mm×9.0mm |
| Test surface | Marking surface (see photo appendix) |

| | | |
|--------------|------------------|--------------|
| | Temperature (°C) | Humidity (%) |
| Conditioning | 20±2 °C | 65±5% |

Note: The specimens shall be conditioned to constant mass (see ISO 291).

Mounting or fixing method for test sample:

Using fibre-reinforced cement board as substrate, hold the sample and substrate against the specimen support frame by using the specimen clamping ring. No joint in the specimens.

III. Test results

The mean values and standard errors:

| Items | Mean value | Standard error |
|---|-----------------------|----------------|
| Ignition Time, (min) | NI | NA |
| Flame propagation time, (s) | NA | NA |
| Heat release integral, (Kj/m ²) | NA | NA |
| Optical density, D (m ⁻¹) | Ignition specimen | --- |
| | Non-ignition specimen | 0 |
| Smoke release, lg D | Ignition specimen | --- |
| | Non-ignition specimen | NA |

Note: NI—Not ignition; NA—Not applicable



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- 1) Where some of the specimens do not ignite, means and standard errors for smoke release shall be reported separately for those specimens that ignite and those that do not ignite. The higher of the two values shall be reported as the smoke released for the material or component. If the higher value applies to a non-ignition case, this fact shall be reported.
- 2) Where not all specimens ignite, indices for smoke developed shall be determined separately for those specimens that ignite and those specimens that do not ignite. The index allotted shall be based on the worst result.

Regulatory Indices:

| Items | Regulatory Indices |
|---------------------------------------|--------------------|
| Ignitability index (Range 0 to 20) | 0 |
| Spread of flame index (Range 0 to 10) | 0 |
| Heat evolved index (Range 0 to 10) | 0 |
| Smoke developed index (Range 0 to 10) | 0-1 |

Supplementary Observations:

- (a) Number of specimens tested: 6
- (b) The number of specimens that ignite: NI
- (c) Where flashing was encountered, and ignition was based on a 10-second flash: NA
- (d) The number of specimens did emit a radiation intensity rise of 1.4kW/m²: NA
- (e) Any observations: NA
- (f) Others: No



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Table 1 Indices for spread of flame

| 1.33 x mean flame propagation time, s | | Index |
|---------------------------------------|------|-------|
| ≥270 | | 0 |
| ≥240 | <270 | 1 |
| ≥210 | <240 | 2 |
| ≥180 | <210 | 3 |
| ≥150 | <180 | 4 |
| ≥120 | <150 | 5 |
| ≥90 | <120 | 6 |
| ≥60 | <90 | 7 |
| ≥30 | <60 | 8 |
| ≥10 | <30 | 9 |
| | <10 | 10 |

Table 2 Indices for heat evolved

| Mean value of the integral from the radiation intensity curves Kj/m ² | | Index |
|---|------|-------|
| | <25 | 0 |
| ≥25 | <50 | 1 |
| ≥50 | <75 | 2 |
| ≥75 | <100 | 3 |
| ≥100 | <125 | 4 |
| ≥125 | <150 | 5 |
| ≥150 | <175 | 6 |
| ≥175 | <200 | 7 |
| ≥200 | <225 | 8 |
| ≥225 | <250 | 9 |
| ≥250 | | 10 |



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Table 3 Indices for smoke developed

| Mean optical density, m ⁻¹ | | | | Index |
|---------------------------------------|-------------------|-----------------------|---------|-------|
| Expressed in terms of K* | | Expressed numerically | | |
| | <K | | <0.0082 | 0† |
| ≥K | <2K | ≥0.0082 | <0.0164 | 1 |
| ≥2K | <2 ² K | ≥0.0164 | <0.0328 | 2 |
| ≥2 ² K | <2 ³ K | ≥0.0328 | <0.0656 | 3 |
| ≥2 ³ K | <2 ⁴ K | ≥0.0656 | <0.131 | 4 |
| ≥2 ⁴ K | <2 ⁵ K | ≥0.131 | <0.262 | 5 |
| ≥2 ⁵ K | <2 ⁶ K | ≥0.262 | <0.525 | 6 |
| ≥2 ⁶ K | <2 ⁷ K | ≥0.525 | <1.05 | 7 |
| ≥2 ⁷ K | <2 ⁸ K | ≥1.05 | <2.10 | 8 |
| ≥2 ⁸ K | <2 ⁹ K | ≥2.10 | <4.20 | 9 |
| ≥2 ⁹ K | | ≥4.20 | | 10 |

* Where K is a constant = 0.0082

† Where doubt exists in the resolving of optical density below 0.016 m⁻¹ the index allotted should be '0 to 1'.

Statement:

- 1) The results only apply to the specimen mounted as described in this report.
- 2) The results of this fire test may be used to directly assess fire hazard, but it should be recognized that a single test method will not provide a full assessment of fire hazard under all fire conditions.

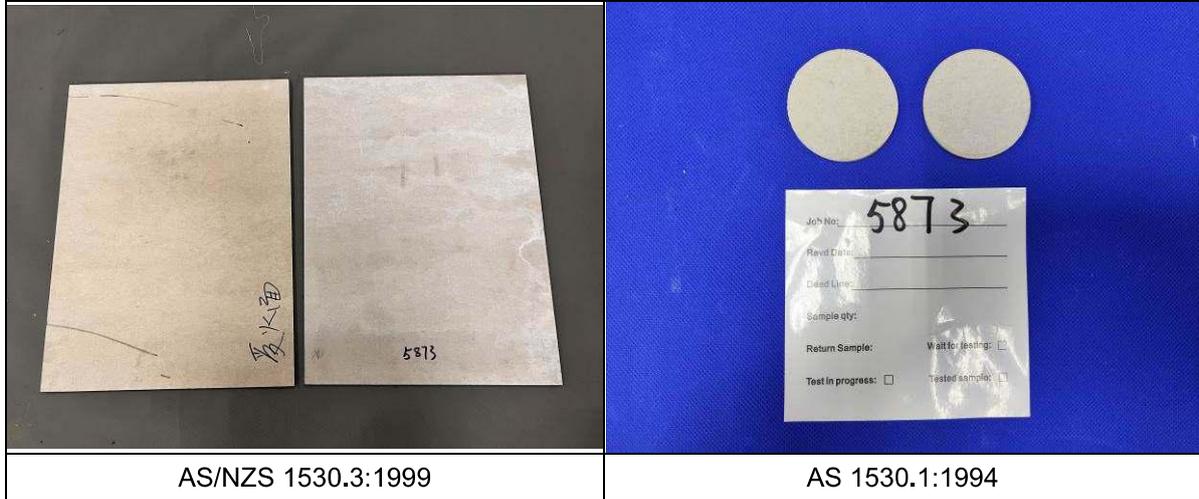


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Photo Appendix:



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End of Report



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