



Test Report

No.: XMHL260600612301PL

Date: Jul 24, 2026

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IN QUARTZ STONE SDN.BHD

PT 9268 LORONG BEMBAN 5, KAWASAN PERINDUSTRIAN BEMBAN, 31000 BATU GAJAH, PERAK

Sample Descriptions : QUARTZ AS SAMPLE(GROUP ZERO)

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

Sample Receiving Date : Jun 26, 2026

Test Performing Date : Jun 29, 2026 to Jul 24, 2026

Test Performed : Selected test(s) as requested by applicant

Test Result(s) : For further details, please refer to the following page(s)

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

Terry Hong
Authorized Signatory

Scan to see the report



XMHL260600612301PL

Verification:
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Part 1:

*** SGS Ref No.: XMHL2606006123PL_XMIN2606001512CM01_EN***

Summary of Results:

No.	Test Item	Test Method	Result
1	Absorption by Weight and Density	Refer to ASTM C97/C97M-25	Absorption: 0.03% Density: 2318 kg/m ³
2	Abrasion Resistance	Refer to ASTM C1353/C1353M-20 ^{ε1}	See result
3	Mohs Scratch Hardness	Refer to ASTM C1895-20	See result
4	Surface Frictional Properties	ASTM E303-22	BPN "wet": 23
5	Linear Thermal Expansion Coefficient	ASTM C531-18	4.4×10 ⁻⁶ /°C
6	Thermal Conductivity and Thermal Resistance*	EN 12664:2001	See result
7	Thermal Shock Resistance	Refer to ASTM C484-20	See result
8	Resistance To Freeze-Thaw Cycling	Refer to ASTM C1026-23	See result
9	Boiling Water Resistance	Refer to NEMA LD 3-2005 Section 3.5	See result
10	High Temperature Resistance	Refer to NEMA LD 3-2005 Section 3.6.2	See result
11	Point Impact	Refer to ANSI Z124.6-2007 Section 4.2.1	See result

Note: * test project/method was carried out by subcontractors.



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Original Sample Photo:



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1. Test Item: Absorption by Weight and Density

Sample Description: See photo

Test Method: Refer to ASTM C97/C97M-25

Test Condition:

Specimen: 100mm×100mm×30mm, 5pcs

Condition: Dry in an oven at 60°C for 48h → Cool them to room temperature in a desiccator → Immerse in distilled water at 20°C for 48h

Test Result:

Specimen No.	1	2	3	4	5
Absorption by weight (%)	0.03	0.03	0.03	0.03	0.03
Mean water absorption (%)	0.03				
Standard deviation (%)	0.00				
Density (kg/m ³)	2315	2316	2322	2318	2320
Mean density (kg/m ³)	2318				
Standard deviation (kg/m ³)	3				

2. Test Item: Abrasion Resistance

Sample Description: See photo

Test Method: Refer to ASTM C1353/C1353M-20^{e1}

Test Condition:

Specimen: Φ100mm×10mm, 3pcs

Condition: Dry in an oven at 60°C for 48h → Cool them to room temperature in a desiccator

Type of wheel: H-22

Load: 1000g/wheel(total 2000g)

Cycles: 1000

Test surface: polished

Test Result:

Test Item	Test Result
Abrasion Resistance	Index of abrasion resistance: 99

Note: The density of specimen is about 2318 kg/m³.



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3. Test Item: Mohs Scratch Hardness

Sample Description: See photo

Test Method: Refer to ASTM C1895-20

Test Condition:

Specimen: 100mm×100mm×30mm, 3pcs

Test surface: polished

Test Result:

Specimen No.	1	2	3
No scratch (highest numerical hardness point)	6	6	6
Scratch (lowest numerical hardness point)	7	7	7

4. Test Item: Surface Frictional Properties

Sample Description: See photo

Test Method: ASTM E303-22

Test Condition:

Specimen: 200mm×150mm×30mm, 6pcs, cut from original sample

Type of Slider: slider 96 (4S rubber)

Test surface: polished

Test Result:

Specimen No.	1	2	3	4	5	6
Mean of British Pendulum Number (for each test surface)	22	23	23	23	24	23
Slip resistance value (BPN "wet")	23					



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5. Test Item: Linear Thermal Expansion Coefficient

Sample Description: See photo

Test Method: ASTM C531-18

Test Condition:

Specimen: 250mm×25mm×25mm, 4pcs

High temperature: 100°C, 16h

Low temperature: 23°C, 16h

Test Result:

Specimen No.	1	2	3	4
Linear thermal expansion coefficient (10 ⁻⁶ /°C)	3.6	4.7	4.1	5.2
Mean value (10 ⁻⁶ /°C)	4.4			

6. Test Item: Thermal Conductivity and Thermal Resistance

Sample Description: See photo

Test Method: EN 12664:2001 Heat Flow Meter Method

Test Condition:

Specimen: 300mm×300mm×30.1mm, 1pc

Mean temperature: 23°C

Temperature difference: 10°C

Test Result:

Test Item	Test Result
Thermal Conductivity	0.940 W/(m·K)
Thermal Resistance	0.032 (m ² ·K)/W

Note:

- The test result can not be compared with other results obtained from different test conditions, and should not be cited to the use condition directly.



7. Test Item: Thermal Shock Resistance

Sample Description: See photo

Test Method: Refer to ASTM C484-20

Test Condition:

Specimen: 300mm×300mm×30mm, 5pcs

Condition: Testing with immersion, this test method consists of determining the thermal shock resistance of specimens by cycling a sample ten times between the temperatures of 15°C and 145 °C.

Test Result:

Specimen No.	1	2	3	4	5
Description of damage	No visible defects	No visible defects	No visible defects	No visible defects	No visible defects

8. Test Item: Resistance to Freeze-Thaw Cycling

Sample Description: See photo

Test Method: Refer to ASTM C1026-23

Test Condition:

Specimen: 300mm×300mm×30mm, 5pcs.

Condition: 20 times of freeze-thaw cycles in temperature of -3°C~5°C

Test Result:

Specimen No.	1	2	3	4	5
Description of damage	No visible defects	No visible defects	No visible defects	No visible defects	No visible defects



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9. Test Item: Boiling Water Resistance

Sample Description: See photo

Test Method: Refer to NEMA LD 3-2005 Section 3.5

Test Condition:

Specimen: 200mm×200mm×30mm, 1pc

Condition: Boiling Water, 20min → Room temperature, 24h

Test surface: polished

Test Result:

Test Item	Test Result
Boiling Water Resistance	No effect

Note: Appearance rating according to NEMA LD 3-2005 Section 3.5, as follows:

a	No effect	no change in color or surface finish.
b	Slight effect	a change in color or surface finish visible only at certain angles and directions.
c	Moderate effect	a change in color or surface finish visible from all angles and directions, but does not appreciably alter the original condition of the specimen.
d	Severe effect	a change in color or surface finish which obviously and markedly alters the original condition of the specimen.



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10. Test Item: High Temperature Resistance Test
Sample Description: See Photo

Test Method: Refer to NEMA LD 3-2005 Section 3.6.2

Test Condition:

Specimen: 200mm×200mm×30mm, 2pcs

Contact temperature: 180℃

Contact period: 20min

Test surface: polished

Test Result:

Test Item	Test Result
High Temperature Resistance Test	No effect

Note: Appearance rating according to NEMA LD 3-2005 Section 3.6.2.5, as follows:

a	No effect	no change in color or surface finish.
b	Slight effect	a change in color or surface finish only visible at certain angles or directions.
c	Moderate effect	a change in color or surface finish visible from all angles and directions, but does not appreciably alter the original condition of the specimen.
d	Severe effect	a change in color or surface finish which obviously and markedly alters the original condition of the specimen.



11. Test Item: Point Impact

Sample Description: See photo

Test Method: Refer to ANSI Z124.6-2007 Section 4.2.1

Test Condition:

Specimens: 810mm×660mm×30mm, 1pc

Test surface: polished

Steel ball: 225g

Height: 610mm

Test Result:

Impact Point	1	2	3	4
Performance	No cracks or chips	No cracks or chips	No cracks or chips	No cracks or chips



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Part 2:
***** SGS Ref No.: SDFTS26004931R01_EN*****
The below tests were conducted by SGS-CSTC Standards Technical Services Co.,Ltd. Shunde Branch
Test Conducted:

This test was conducted in accordance with ASTM E84-25 Standard Test Method for Surface Burning Characteristics of Building Materials.

Introduction:

The method, designated as ASTM E84, "Standard Method of Test for Surface Burning Characteristics of Building Materials", is designed to determine the relative surface burning characteristics of materials under specific test conditions. Results are expressed in terms of flame spread index (FSI) and smoke developed index (SDI).

The purpose of this test method is to determine the relative burning behavior of the material by observing the flame spread along the specimen. Flame spread and smoke developed index are reported. However, there is not necessarily a relationship between these two measurements.

Test Procedure:

The tunnel is preheated to 65.6°C(150°F), as measured by the floor-embedded thermocouple located 7.09m (23.25 ft) downstream of the burner ports, and allowed to cool to 40.6°C(105°F), as measured by the floor-embedded thermocouple located 3.96m (13 ft) from the burners. At this time the tunnel lid is raised and the test sample is placed along the ledges of the tunnel so as to form a continuous ceiling 7.32m (24 ft) long, 304.8mm (12 in) above the floor. The lid is then lowered into place.

Upon ignition of the gas burners, the flame spread distance is observed and recorded every 30 seconds. Flame spread distance versus time is plotted ignoring any flame front recessions. If the area under the curve (A) is less than or equal to 97.5 ft·min, FSI = 0.515·A; if greater, FSI = 4900/(195-A).

The test results for smoke shall be plotted and the area under the curve shall be divided by the area under the curve for heptane, multiplied by 100, and rounded to the nearest multiple of five to establish a numerical smoke-developed index (SDI).

Conditioning:

Prior to testing, the sample was conditioned to a constant weight at a temperature of (23±2.8)°C (73.4±5)°F and at a relative humidity of (50±5)%.



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Sample Details:

Sample description	Stone
Sample size	1060mm x 510mm
Thickness	30 mm
Exposed face	Smooth surface

Mounting methods:

The test specimen consisted of 7 sections material. These sections were butted together during testing to form the required specimen length. The specimen was self-supporting on the ledges of the test chamber.

Test results:

Flame Spread Index, FSI	Smoke-developed Index, SDI
5	5

Rating:

The National Fire Protection Association Life Safety Code 101, Chapter 10, Section 10.2.3 “Interior Wall and Ceiling Finish Classification”, has a means of classifying materials with respect to Flame Spread and Smoke Developed when tested in accordance with ASTM E84, UL 723 “Method of Test of Surface Burning Characteristics of Building Materials”.

International Building Code, Chapter 8, Interior Finishes, Section 803 “Wall and Ceiling Finishes”, was classified in accordance with ASTM E84 or UL 723. Such interior finish materials shall be grouped in the following classes in accordance with their flame spread and smoke-developed indexes.

The classifications are as follows:

Classification	Flame Spread Index, FSI	Smoke-developed Index, SDI
Class A	0-25	0-450
Class B	26-75	0-450
Class C	76-200	0-450

Since the tested sample received a Flame Spread Index 5 and a Smoke-developed Index 5, it **would meet** the requirements of **Class A** interior Wall & Ceiling Finish Category.



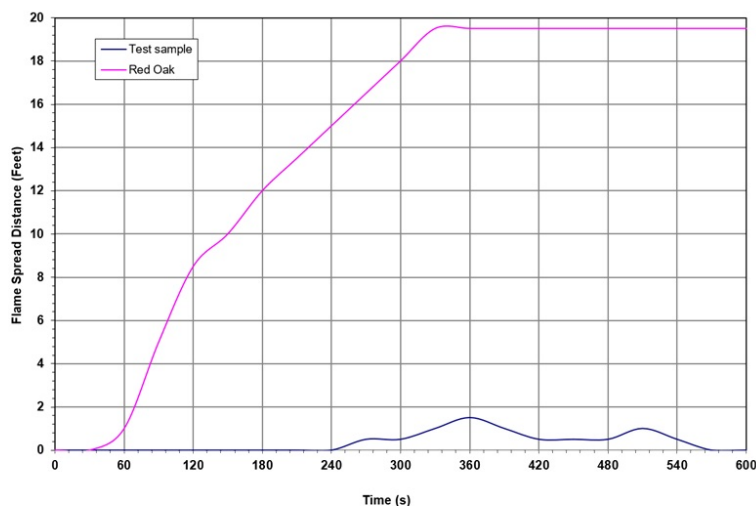
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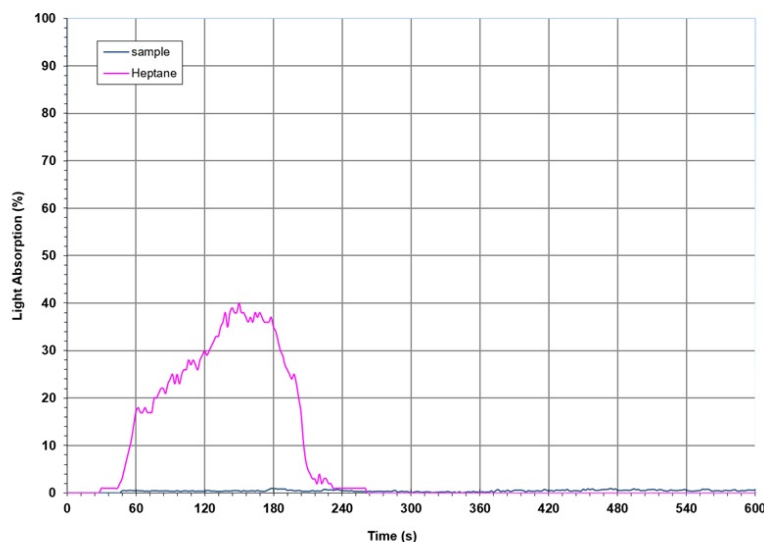
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Graphical Results:



Graph1. Flame Spread Chart



Graph2. Smoke Developed Chart



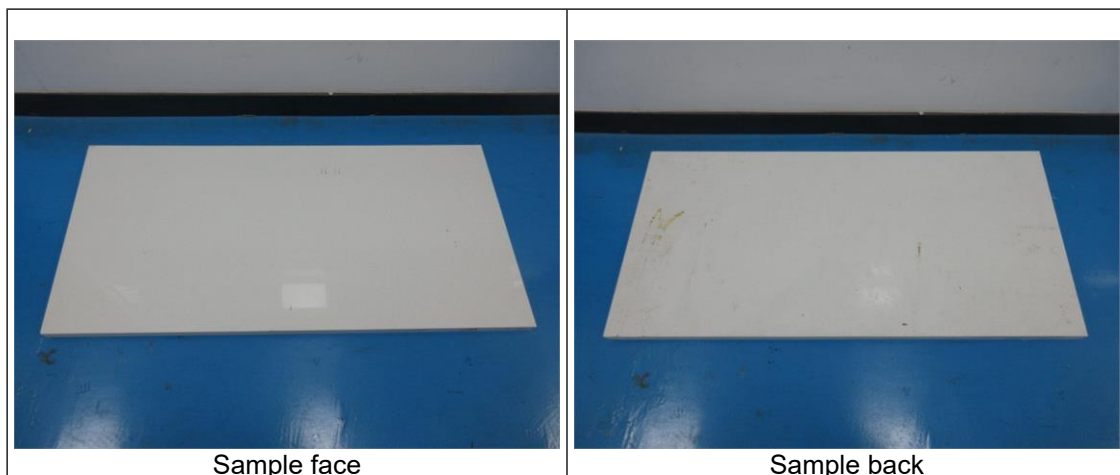
Observations:

Time to ignition (sec)	264
Time to Max. FS (sec)	360
Maximum FS (feet)	1.5
Observations	None

Statement:

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

Photo Appendix:



SGS authenticate the photo on original report only

End of Report



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