

**Test Report** No.: SHHL241207290201SD Date: FEB. 25, 2025 Page: 1 of 24

DONGGUAN OUYAXUAN DECORATIVE BUILDING MATERIALS LTD.
ROOM 101, BUILDING 1, NO. 27, HENGLONG ROAD, DAOJIAO TOWN, DONGGUAN CITY

Sample Description : Silicon-free Artificial Stone

Manufacturer : Dongguan Ouyaxuan Decorative Building Materials Ltd.
Supplier : Dongguan Ouyaxuan Decorative Building Materials Ltd.

\*\*\*\*\*

Source of Sample : SENT BY CLIENT. Sample Receiving Date : DEC. 09, 2024

Testing Period : DEC. 09, 2024 TO FEB. 25, 2025

<u>Test Requested</u>	Result
Silicon (Si)	See Result
Halogen	See Result
Antimicrobial activity test	See Result
Antifungal activity test	See Result
High Temperature Resistance	See Result
Stain Resistance Test	See Result
Chemical Resistance Test	See Result
Modulus of Rupture	See Result
Compressive Strength	See Result
Flexural Strength	See Result
Rupture Energy	See Result
Point Impact	See Result
Absorption by Weight and Density	See Result
Abrasion Resistance	See Result
Mohs Scratch Hardness	See Result
Radioactivity	See Result
Linear Thermal Expansion Coefficient	See Result
ASTM E84-2023d Standard Test Method for Surface Burning Characteristics of Building Materials	See Result

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Melody Zhang

**Authorized Signatory** 



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's socie responsibility is to its Client and this document does not exceed responsibility is to its Client and this document does not exceed responsibility is to its Client's lights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN Doccheck@sas.com

<sup>4</sup> Bulding, No.888, Yishan Rood, Xhulu District, Shanghai, (Zhina 200233 | 3<sup>4</sup> Bulding, Lane 3999, Xiupu Rood, Pudong District, Shanghai China 201315 t (86) 400 960 9661 www.sgsgroup.com.cn 中国・上海・徐江区宮山路89号4号楼 邮编: 200233 | 中国・上海・浦东新区秀浦路3999弄3号楼 邮编: 201315 t (86) 400 960 9661 sgs.chlina@sgs.com



**Test Report** No.: SHHL241207290201SD Date: FEB. 25, 2025 Page: 2 of 24

## **Test Conducted**

**Test Part Description** 

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA24-0282400-0001.C001	White solid

### Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

# Silicon (Si)

**Test Method:** With reference to ASTM D 4004-06(2017), analysis was performed by ICP-OES.

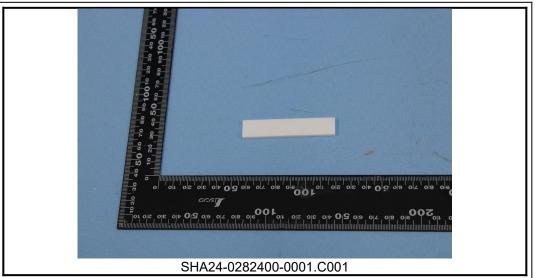
Test Item(s)	Unit(s)	MDL	A1
Silicon (Si)	mg/kg	50	148

# **Halogen**

**Test Method:** With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit(s)	MDL	A1
Fluorine(F)	mg/kg	20	ND
Chlorine(CI)	mg/kg	50	ND
Bromine(Br)	mg/kg	50	ND
lodine(I)	mg/kg	50	ND

Sample Photo:





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's socie responsibility is to its Client and this document does not exceed responsibility is to its Client and this document does not exceed responsibility is to its Client's lights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN Doccheck@sas.com



**Test Report** No.: SHHL241207290201SD Date: FEB. 25, 2025 Page: 3 of 24

Sample Description:

Sample No.	SGS Sample ID	Description
1	ASH24-0090033-0001	sample in bag
2	ASH24-0090033-0002	sample in bag

**Test Requested:** Selected test(s) as requested by applicant:Antimicrobial activity test

Test Method: ASTM E 2180-24 Standard Test Method for Determining the Activity of Incorporated

Antimicrobial Agent(s) In Polymeric or Hydrophobic Materials

### ASH24-0090033-0001

Test organism(s)	Escherichia coli ATCC 8739
Test inoculum (CFU/mL)	2.1×10 <sup>6</sup>
Control Sample-0 h (CFU/cm²)*	1.2×10 <sup>5</sup>
Control Sample-24 h (CFU/cm²)*	1.2×10 <sup>6</sup>
Treated sample-24 h(CFU/cm²)*	7.4×10 <sup>5</sup>
Reduction (%)	38.3

### Notes:

The control sample is plastic film without antimicrobial activity, provided by SGS laboratory. \*expressed as the antilog of the geometric mean of the recovered number of organisms.

Sterilization of treated test specimens: Sterilized by wiping with 75 % ethanol resolved in water.

**Test Requested:** Selected test(s) as requested by applicant: Antifungal activity test

Test Method: ASTM G 21-15(2021)e1 Standard Practice for Determining Resistance of Synthetic

Polymeric Materials to Fungi

## ASH24-0090033-0002

Test organism(s)	Concentration of spores (spores /mL)	Observed growth rating on specimens(after 28 days)				
*Test organism	1.0×10 <sup>6</sup>	0**				

## Notes:

1.\*Test organism: Aspergillus brasiliensis ATCC 9642, Talaromyces pinophilus ATCC 11797, Chaetomium globosum ATCC 6205, Trichoderma virens ATCC 9645, Aureobasidium pullulans ATCC 15233 Aspergillus brasiliensis is historically known as A.niger.

Talaromyces pinophilus is historically known as P.pinophilum.

Trichoderma virens is historically known as Gliocladium virens.

2.According to ASTM G 21-15(2021)e1 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi, observed fungi growth rating on the specimens include:

0-None

1-Traces of growth (less than 10%)

2-Light growth (10 to 30%)

3-Medium growth (30 to 60%)

4-Heavy growth (60% to complete coverage)

3.\*\* The microscope(50 X) was used to confirm the observation.

4.Test surface: Bright surface.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. At set nation and jurisdiction issues defined therein, any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from excretising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, foregrey or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN. Doccheck@sas.com

of email: <u>CN. Uoccneck@ssgs.com</u> 中国・上海・徐江区宜山路889号4号楼 邮编:200233 | 9<sup>4</sup> Building, Lane 3899, Xipuy Read, Putong District, Shanghai China 201315 t (86) 400 960 9661 www.sgsgroup.com.cn 中国・上海・徐江区宜山路889号4号楼 邮编:200233 | 中国・上海・浦东新区秀浦路3999霁5号楼 邮编:201315 t (86) 400 960 9661 sgs.china@sgs.com



**Test Report** No.: SHHL241207290201SD Date: FEB. 25, 2025 Page: 4 of 24

Sample Photo:







Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. At the third is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, foregery or falsification of the content or appearance of this document to unduly and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@ass.com"



**Test Report** No.: SHHL241207290201SD Date: FEB. 25, 2025 Page: 5 of 24

Test Item: High Temperature Resistance

Test Method: With Reference to ANSI NEMA LD 3-2005 Section 3.6 Hot Oil Method

**Test Condition:** 

Specimen: 100mm×100mm×20.0mm, 3pcs

Test temperature: 180°C Contact time: 20min Cooling time: 24h

Lab Environmental Condition: (23±2)°C, (50±5)%RH

### Test Result:

Test Item	Test Result
High Temperature Resistance	a: No effect

#### Note:

- 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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sas.com/en/Terms-and-Conditions">https://www.sas.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from excrising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, foregrey or falsification of the content or appearance of this document to unders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN. Doccheck@ss.com"

or cmail: CN.Doccheck@sqs.com 中国·上海·徐江区宜山路889号4号楼 邮编:200233 | 中国 - 上海·浦东新区秀浦路3999霁3号楼 邮编:201315 t (86) 400 990 9661 www.sgsgroup.com.cn 中国·上海·徐江区宜山路889号4号楼 邮编:200233 | 中国 - 上海·浦东新区秀浦路3999霁3号楼 邮编:201315 t (86) 400 990 9661 sgs.china@sgs.com



**Test Report** No.: SHHL241207290201SD Date: FEB. 25, 2025 Page: 6 of 24

Test Item: Stain Resistance Test

Test Method: With Reference to IAPMO/ANSI Z124.6-2007 Section 5.2

**Test Condition:** 

Specimen: 100mm×100mm×20.0mm, 10pcs

Testing face: Front view

Lab Environmental Condition: (23±2)°C, (50±5)%RH

### Test Result:

Test Item		Contact Time	Test F	Result
		Contact Time	Covered	Uncovered
	Black Crayon		Rating 1	Rating 1
	Black Liquid Shoe Polish		Rating 1	Rating 1
	Blue Washable Ink		Rating 1	Rating 1
	Gentian Violet Solution	16h	Rating 2	Rating 2
Stain	Beet Juice		Rating 1	Rating 1
Resistance	Grape Juice	1011	Rating 1	Rating 1
Test	Lipstick (contrasting color)		Rating 1	Rating 1
	Hair Dye (contrasting color)		Rating 2	Rating 2
	lodine Solution (1% alcohol solution)		Rating 2	Rating 2
	Wet Tea Bag		Rating 1	Rating 1
	Sum of all the individual strain rating		2	6

Rating code:

· teitiii ig ee alei	-
Numerical rating	Description
1	Non staining
2	Removable by alcohol or naphtha
3	Removable by first application of standard scouring powder
4	Removable by two standard scouring powder
5	Stain remaining after the aforementioned cleanings



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from excrising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, foregery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@ass.com"

or email: CN.Doccheck@sgs.com 4<sup>®</sup>Bulding, No.899, Yishan Road, Xuhu Dishid, Shanghai, China 200233 | 3<sup>st</sup> Bulding, Lane 3999, Xupu Road, Pudong Dishird, Shanghai China 201315 | t (86) 400 960 9661 | www.sgsgroup.com.cn 中国・上海・徐汇区宜山路889号4号楼 邮编: 200233 | 中国・上海・浦东新区秀浦路3999弄3号楼 邮编: 201315 | t (86) 400 960 9661 | sgs.china@sgs.com



**Test Report** No.: SHHL241207290201SD Date: FEB. 25, 2025 Page: 7 of 24

Test Item: Chemical Resistance Test

Test Method: With Reference to IAPMO/ANSI Z124.6-2007 Section 5.5

**Test Condition:** 

Specimen: 100mm×100mm×20.0mm, 15pcs

Testing face: Front view

Lab Environmental Condition: (23±2)°C, (50±5)%RH

### Test Result:

Test Item		Contact	Test F	Result
		Time	Covered	Uncovered
	Naphtha		Unaffected	Unaffected
	Ethyl alcohol		Unaffected	Unaffected
	Amyl acetate		Unaffected	Unaffected
	1 part commercial house ammonia, solution, 9 parts water by volume		Unaffected	Unaffected
	Citric acid, 10% water solution		Unaffected	Unaffected
	Urea, 6.0% water solution		Unaffected	Unaffected
Stain	Hydrogen peroxide solution, 3% water solution		Unaffected	Unaffected
Resistance Test	Concentrated sodium hypochlorite solution	16h	Unaffected	Unaffected
	Toluene		Unaffected	Unaffected
	Ethyl acetate		Unaffected	Unaffected
	Lye solution, (1 to 2% water solution)		Unaffected	Unaffected
	Acetone		Unaffected	Unaffected
	Trisodium phosphate, (5 parts TSP to 95 parts water by weight)		Unaffected	Unaffected
	Vinegar		Unaffected	Unaffected
	Pine oil		Unaffected	Unaffected



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. At the third is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, foregery or falsification of the content or appearance of this document to unduly and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@ass.com"



**Test Report** No.: SHHL241207290201SD Date: FEB. 25, 2025 Page: 8 of 24

Test Item: Modulus of Rupture Test Method: ASTM C99/C99M-24

**Test Condition:** 

Specimen: 200mm×100mm×60.0mm, 10pcs (5pcs for each condition)

Dry condition: Dry at 60°C for 48 hours to constant weight

Wet condition: Immerse in water at 22°C for 48h

Support span: 180mm Test speed: 5000N/min

Lab Environmental Condition: (23±2)°C, (50±5)%RH

## Test Result:

Test Item				Т	est Resu	lt	
			Ind	ividual va	lue		Average value
Modulus of	Dry condition	19.9	21.2	17.4	17.9	21.5	19.6
Rupture (MPa)	Wet condition	30.4	31.8	35.5	34.9	28.2	32.2



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from excrising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, foregery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@ass.com"

4 Building, No.889, Yishan Road, Xuhul District, Shanghai, China 200233 | 3rd Building, Lane 3999, Xiupu Road, Pudong District, Shanghai China 201315 t (86) 400 960 9661 www.sgsgroup.com.cn



**Test Report** No.: SHHL241207290201SD Date: FEB. 25, 2025 Page: 9 of 24

Test Item: Compressive Strength

Test Method: ASTM C170/C170M - 24a

**Test Condition:** 

Specimen: 50mm×50mm×50.0mm, 10pcs, 5pcs for each condition

Dry condition: Dry at 60°C for 48 hours to constant weight

Wet condition: Immerse in water at 22°C for 48h

Test speed: 0.5 MPa/s Product type: Quartz

Lab Environmental Condition: (23±2)°C, (50±5)%RH

## Test Result:

			Test Result					
Test Item		Individual Value				Average Value	Standard Deviation	
Compressive	Dry	112	110	99.4	99.8	101	104	6.1
Strength (MPa)	Wet	125	105	94.7	118	99.4	108	12.7



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from excrising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, foregery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@ass.com"

4 Building, No.889, Yishan Road, Xuhul District, Shanghai, China 200233 | 3rd Building, Lane 3999, Xiupu Road, Pudong District, Shanghai China 201315 t (86) 400 960 9661 www.sgsgroup.com.cn



**Test Report** No.: SHHL241207290201SD Date: FEB. 25, 2025 Page: 10 of 24

Test Item: Flexural Strength

Test Method: ASTM C880/C880M-24

**Test Condition:** 

Specimen: 350mm×100mm×30.0mm, 10pcs, 5pcs for each condition

Dry condition: Dry at 60°C for 48 hours to constant weight

Wet condition: Immerse in water at 22°C for 48h

Test speed: 4MPa/min Product type: Quartz

Lab Environmental Condition: (23±2)°C, (50±5)%RH

## Test Result:

			Test Result						
Test Item		Individual Value					Average Value	Standard Deviation	
Flexural	Dry	15.6	13.6	12.9	12.5	12.1	13.3	1.4	
Strength (MPa)	Wet	26.8	23.2	23.7	29.1	25.7	25.7	2.4	



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from excretising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CAD Doccheck@bass.com"



**Test Report** No.: SHHL241207290201SD Date: FEB. 25, 2025 Page: 11 of 24

Test Item: Rupture Energy Test Method: EN 14158:2004

**Test Condition:** 

Specimen: 200mm×200mm×14.5mm, 6pcs (1pc as control specimen)

Treatment condition: Dry at 70°C to constant weight

Initial height: 100mm Steel ball: 1Kg

Lab Environmental Condition: (23±2)°C, (50±5)%RH

## Test Result:

Test Item	Test Result					
rest item	Individual Value				Average Value	
Rupture Energy (J)	2.84 6.32		4.80	7.22	5.22	5.28



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from excrising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, foregery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@ass.com"



**Test Report** No.: SHHL241207290201SD Date: FEB. 25, 2025 Page: 12 of 24

Test Item: Point Impact

Test Method: With Reference to IAPMO/ANSI Z124.6-2007 Section 4.2.1

**Test Condition:** 

Specimen: 810mm×660mm×14.6mm, 2pcs

Steel ball: 0.225kg Height: 610mm Test Face: Front View

Lab Environmental Condition: (23±2)°C, (50±5)%RH

### Test Result:

Test Item	Test Result
Point Impact	Unbroken



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from excretising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CAD Doccheck@bass.com"

or email: CN. Doccheck@sgs.com 中國・上海・徐江区宜山路889号4号楼 邮编:200233 | 中国・上海・浦东新区秀浦路3999弄5号楼 邮编:201315 t (86) 400 960 9661 www.sgsgroup.com.cn 中国・上海・徐江区宜山路889号4号楼 邮编:200233 | 中国・上海・浦东新区秀浦路3999弄5号楼 邮编:201315 t (86) 400 960 9661 sgs.china@sgs.com



**Test Report** No.: SHHL241207290201SD Date: FEB. 25, 2025 Page: 13 of 24

Test Item: Absorption by Weight and Density\*

Sample Description: See photo

Test Method: Refer to ASTM C97/C97M-18

Test Condition:

Specimen: 50mm×50mm×15mm, 5pcs

Condition: Dry in an oven at  $(60\pm2)^{\circ}$ C for 48h  $\rightarrow$  Cool them to room temperature in a desiccator  $\rightarrow$ 

Immerse in distilled water at (22±2)°C for 48h

Test Result:

Specimen No.	1	2	3	4	5	
Absorption by weight (%)	0.02	0.02	0.05	0.04	0.07	
Mean water absorption (%)			0.04			
Standard deviation (%)	0.03					
Density (kg/m³)	2127	2130	2126	2127	2127	
Mean density (kg/m³)	2127					
Standard deviation (kg/m³)			2			

<sup>\*</sup>Test project was carried out SGS-CSTC Standards Technical Services Co., Ltd. Xiamen Branch Testing Center.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sas.com/en/Terms-and-Conditions">https://www.sas.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unwful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CND Doccheck@sas.com"



**Test Report** No.: SHHL241207290201SD Date: FEB. 25, 2025 Page: 14 of 24

Test Item: Abrasion Resistance\* Sample Description: See photo

Test Method: Refer to ASTM C241/C241M-21

**Test Condition:** 

Specimen: 50mm×50mm×15mm, 3pcs

Condition: Dry in an oven at  $(60\pm2)^{\circ}$ C for 48h  $\rightarrow$  Cool them to room temperature in a desiccator  $\rightarrow$ 

Abrasion resistance test → Immerse in distilled water at (22±2)°C for 1h

Load: 2000g Revolutions: 225 Test surface: polished

Test Result:

Specimen No.	1	2	3
Abrasive hardness value, H <sub>a</sub>	21	21	27
Mean abrasive hardness value, H <sub>a</sub>		23	

<sup>\*</sup>Test project was carried out SGS-CSTC Standards Technical Services Co., Ltd. Xiamen Branch Testing Center.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not excense a parties to a transaction from excricing all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, foregrey or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CVD.Doccheck@ass.com"

or email: CN\_Doccheck@sgs.com (\*Pallingh, k83); Fhash Redx, Kuhi Jenkich, Shanghui, China 200233 | 3<sup>rd</sup> Building, Lane 5999, Xiupu Road, Pudong District, Shanghai China 201315 t (86) 400 960 9661 www.sgsgroup.com.cn 中国·上海·徐江区宜山路889号4号楼 邮编: 200233 | 中国·上海·浦东新区秀浦路3999弄3号楼 邮编: 201315 t (86) 400 960 9661 sgs.china@sgs.com



**Test Report** No.: SHHL241207290201SD Date: FEB. 25, 2025 Page: 15 of 24

Test Item: Mohs Scratch Hardness\* Sample Description: See photo

Test Method: Refer to ASTM C1895-20

**Test Condition:** 

Specimen: 300mm×300mm×15mm, 1pc

Test surface: polished

Test Result:

Test Point No.	1	2	3
No scratch (highest numerical hardness point)	3	3	3
Scratch (lowest numerical hardness point)	4	4	4

<sup>\*</sup>Test project was carried out SGS-CSTC Standards Technical Services Co., Ltd. Xiamen Branch Testing Center.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. At the third is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, foregery or falsification of the content or appearance of this document to unduly and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@ass.com"

or email: CN\_Doccheck@sgs.com | 4<sup>®</sup>Bulding, No.898, Yishan Road, Xiniu District, Shanghai, China 200233 | 3<sup>st</sup> Bulding, Lane 3999, Xinpu Road, Pudong District, Shanghai China 201315 t (86) 400 960 9661 www.sgsgroup.com.cn 中国・上海・徐汇区宜山路889号4号楼 邮编: 200233 | 中国・上海・浦东新区秀浦路3999弄3号楼 邮编: 201315 t (86) 400 960 9661 sgs.china@sgs.com



**Test Report** No.: SHHL241207290201SD Date: FEB. 25, 2025 Page: 16 of 24

Test Item: Radioactivity \*
Sample Description: See photo
Test Method: GB 6566-2010

**Test Condition:** 

Specimen: Powder, made from original sample

Test Result:

Test items	Requirement in GB 6566-2010 (Class A)	Test Results
Internal exposure index I <sub>Ra</sub> ≤1.0		<0.1
External exposure index I <sub>γ</sub>	≤1.3	<0.1

Specific activity of the nuclides

Nuclides	Units	Specific activity
Ra-226		1.4
Th-232	Bq/kg	1.2
K-40		0.0

Note: The sample complies with requirements of GB 6566-2010 Class A decorative materials.

Requirements of GB 6566-2010:

requirements of OB 0000 2010.	
	Comply with $I_{Ra} \le 1.0$ , $I_{\gamma} \le 1.0$
Main materials for building	In case of hole rate >25%, it shall comply with
	$I_{Ra} \le 1.0, I_{V} \le 1.3$
	Class A: Comply with $I_{Ra} \le 1.0$ , $I_{V} \le 1.3$
	Class B: Comply with $I_{Ra} \le 1.3$ , $I_{V} \le 1.9$ , but not
Decorative materials	comply with the requirement of Class A
	Class C: Comply with $I_v \le 2.8$ , but not comply
	with the requirements of Class A & Class B

<sup>\*</sup>Test project was carried out SGS-CSTC Standards Technical Services Co., Ltd. Xiamen Branch Testing Center.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from excrising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, foregery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@ass.com"

 Or email: CN\_Doccheck@sgs.com
 t (86) 400 960 9661
 www.sgsgroup.com.cn

 4° Building, No.888, Yishan Road, Xuhui District, Shanghai, China 200233
 3° Building, Inc.889, Xiupu Road, Putong District, Shanghai China 201315
 t (86) 400 960 9661
 www.sgsgroup.com.cn

 中国・上海・徐汇区宜山路889号4号楼 邮编: 200233
 中国・上海・浦东新区秀浦路3999霁3号楼 邮编: 201315
 t (86) 400 960 9661
 sgs.china@sgs.com



**Test Report** No.: SHHL241207290201SD Date: FEB. 25, 2025 Page: 17 of 24

Test Item: Linear Thermal Expansion Coefficient\*

Sample Description: See photo

Test Method: Refer to ASTM C531-18

**Test Condition:** 

Specimen: 127mm×13mm×10mm, 4pcs

High temperature: 100°C, 16h Low temperature: 23°C, 16h

Test Result:

Specimen No.	1	2	3	4
Linear thermal expansion coefficient (10 <sup>-6</sup> /°C)	35.7	39.8	31.6	23.5
Mean value (10 <sup>-6</sup> /°C)		32	2.6	

<sup>\*</sup>Test project was carried out SGS-CSTC Standards Technical Services Co., Ltd. Xiamen Branch Testing Center.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not excense a parties to a transaction from excricing all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, foregrey or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CVD.Doccheck@ass.com"

or email: CN\_Doccheck@sgs.com (\*Pallingh, k83); Fhash Redx, Kuhi Jenkich, Shanghui, China 200233 | 3<sup>rd</sup> Building, Lane 5999, Xiupu Road, Pudong District, Shanghai China 201315 t (86) 400 960 9661 www.sgsgroup.com.cn 中国·上海·徐江区宜山路889号4号楼 邮编: 200233 | 中国·上海·浦东新区秀浦路3999弄3号楼 邮编: 201315 t (86) 400 960 9661 sgs.china@sgs.com



**Test Report** No.: SHHL241207290201SD Date: FEB. 25, 2025 Page: 18 of 24

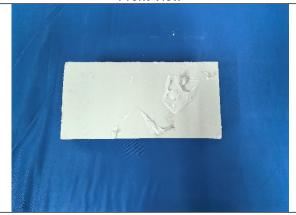
Original Sample Photo(s):



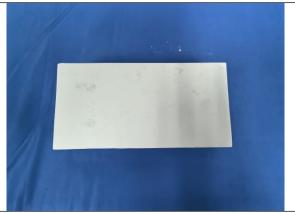
High Temperature Resistance / Stain Resistance Test / Chemical Resistance Test -Front View



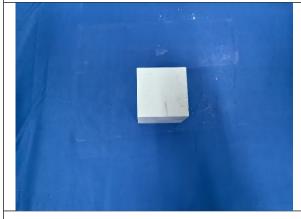
High Temperature Resistance / Stain Resistance Test / Chemical Resistance Test -Back View



Modulus of Rupture - Front View



Modulus of Rupture - Back View



Compressive Strength - Front View



Compressive Strength - Back View

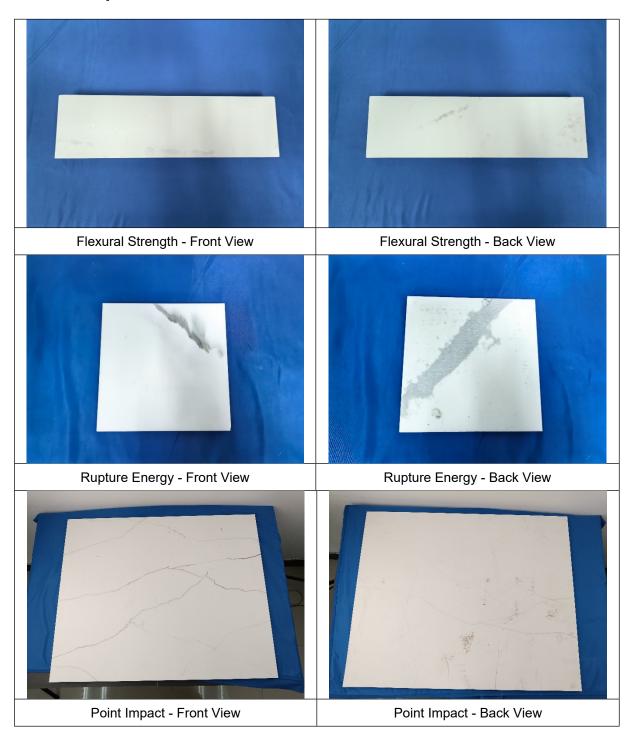


Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sas.com/en/Terms-and-Conditions">https://www.sas.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from excretising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, foregrey or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN. Doccheck@sas.com"



**Test Report** No.: SHHL241207290201SD Page: 19 of 24 Date: FEB. 25, 2025





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. At the third is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, foregery or falsification of the content or appearance of this document to unduly and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@ass.com"



Test Report No.: SHHL241207290201SD

Date: FEB. 25, 2025

Page: 20 of 24



Absorption by Weight and Density\* / Abrasion Resistance\* / Mohs Scratch Hardness\* / Radioactivity\* / Linear Thermal Expansion Coefficient\*



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sas.com/en/Terms-and-Conditions">https://www.sas.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from excretising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, foregrey or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN. Doccheck@sas.com"

or email: CN\_Doccheck@sgs.com 中国、上海:徐江区宜山路889号号号楼 邮编: 200233 | 3<sup>rd</sup> Building, Lane 3999, Xiupu Road, Pudong District, Shanghai China 201315 t (86) 400 960 9661 www.sgsgroup.com.cn 中国、上海:徐江区宜山路889号号号楼 邮编: 200233 | 中国、上海:浦东新区秀浦路3999弄3号楼 邮编: 201315 t (86) 400 960 9661 sgs.china@sgs.com



**Test Report** No.: SHHL241207290201SD Date: FEB. 25, 2025 Page: 21 of 24

The below testing was performed by SGS other internal laboratory.

### I. Test conducted

This test was conducted in accordance with ASTM E84-2023d Standard Test Method for Surface Burning Characteristics of Building Materials.

### II. Introduction

The method, designated as ASTM E84-2023d, 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.

### III. Test procedure

The tunnel is preheated to  $65.6^{\circ}$ C( $150^{\circ}$ F), as measured by the floor-embedded thermocouple located 7.09m (23.25 ft) downstream of the burner ports, and allowed to cool to  $40.6^{\circ}$ C( $105^{\circ}$ 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).

### IV. 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%.

# Sample details

Sample description	Silicon-free artificial stone (provided by client)
Color	White + Grey
Thickness	15.0mm
Area density	31.1 kg/m <sup>2</sup>
Exposed face	Printed surface

#### Mounting methods:

The specimen was self-supporting and placed directly on the inner ledges of the tunnel.

The specimen is consisted of 5 pieces of 550mm wide by 1460mm long, all sections jointed end-to-end.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. At set nation and jurisdiction issues defined therein, any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from excretising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, foregrey or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN. Doccheck@sas.com

or email: CN.Doccheck@sqs.com 中國・上海・徐江区宜山路889号4号楼 廊编:200233 | 中国・上海・浦东新区秀浦路3999霁5号楼 廊编:201315 t (86) 400 990 9661 www.sgsgroup.com.cn 中国・上海・徐江区宜山路889号4号楼 廊编:200233 | 中国・上海・浦东新区秀浦路3999霁5号楼 廊编:201315 t (86) 400 990 9661 sgs.china@sgs.com



**Test Report** 

No.: SHHL241207290201SD

Date: FEB. 25, 2025

Page: 22 of 24

**Test results:** 

Flame Spread Index, FSI	Smoke-developed Index, SDI
0	0

# 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 or 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 E 84 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:

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

Since the tested sample received a Flame Spread Index 0 and a Smoke-developed Index 0, it would **meet** the requirements of **Class A** interior Wall & Ceiling Finish Category.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from excising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, foregery or falsification of the content or appearance of this document usually and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@ass.com"



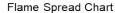
**Test Report** 

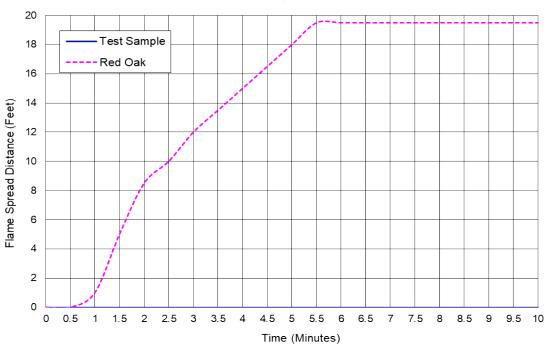
No.: SHHL241207290201SD

Date: FEB. 25, 2025

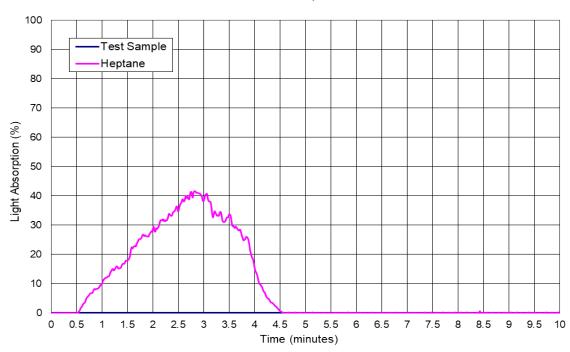
Page: 23 of 24

# **Graphical results:**





### Smoke Developed Chart





Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not excense a parties to a transaction from excricing all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, foregrey or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CVD.Doccheck@ass.com"

or email: CN\_Doccheck @egs.com

| Pulding, No.889, Yishan Road, Xuhui District, Shanghai, China 200233 | 3<sup>rd</sup> Building, Lane 3999, Xiugu Road, Pudong District, Shanghai China 201315 t (86) 400 960 9661 www.sgsgroup.com.cn
中国・上海・徐江区宜山路89°号4号楼 邮编: 200233 | 中国・上海・浦东新区秀浦路3999霁3号楼 邮编: 201315 t (86) 400 960 9661 sgs.china@sgs.com



**Test Report** No.: SHHL241207290201SD Date: FEB. 25, 2025 Page: 24 of 24

Observations:

Time to ignition (sec)	Not ignited
Time to Max. FS (sec)	Not Applicable
Maximum FS (feet)	0
Observations	Cracking

## **Photo Appendix:**



SGS authenticate the photo on original report only

### Remark:

- 1. Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS shall not be responsible for the authenticity and integrity of such data and information and the validity of the results and / or conclusions arising therefrom. Testing results only apply to the sample as received.
- 2. The declaration of conformity is based on acceptance limits chosen based on simple acceptance (w = 0, AL = TL).

Statements of conformity are reported as:

Passed - The measured values were observed in tolerance at the points tested.

Failed - One or more measured values were observed out of tolerance at the points tested.

\*\*\*End of Report\*\*\*



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's socie responsibility is to its Client and this document does not exceed responsibility is to its Client and this document does not exceed responsibility is to its Client's lights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN Doccheck@sas.com

4 Building, No.889, Yishan Road, Xuhui District, Shanghai, China 200233 | 3 Building, Lane 3999, Xiupu Road, Pudong District, Shanghai China 201315 t (86) 400 960 9661 www.sgsgroup.com.cn 中国・上海・徐汇区宜山路889号4号楼 邮编:200233 | 中国・上海・浦东新区秀浦路3999弄3号楼 邮编:201315 t (86) 400 960 9661 sgs.china@sgs.com