TEST REPORT

GUANGDONG FORTUNE STONE NEW MATERIAL CO.,LTD

LUO YANG JIE DAO LI CUN XIAO DENG LONG DA XIANG XIN WU YANG GOU GROUP, BOLUO COUNTY, HUIZHOU CITY,GUANGDONG PROVINCE,CHINA

Sample Description	:	FLEXIBLE STONE
Buyer	:	MICRO SINE ELECTRIC SL
Product usage	:	INTERIOR AND EXTERIOR DECORATION

The above sample(s) data and information 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.

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SGS Ref. No.	:	GZPL2509003897
Sample Receiving Date	:	Oct 22,2025
Testing Period	:	Oct 22,2025 to Nov 21,2025
Test Required	:	GB 8624-2012 Fire classification for burning behavior of building materials and products Clause 5.1.1 Table 2 Classes of reaction to fire performance for slab building materials and construction products
Test result(s)	:	See attached sheet
Conclusion	:	According to the test result, Combustion properties identified as: GB 8624 A (A2-s1, d0)

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

Guan Zhiliang
Approved signatory

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I. Test Conducted:

GB 8624-2012 Fire classification for burning behavior of building materials and products.

Clause 5.1.1 Table 2 Classes of reaction to fire performance for slab building materials and construction products. And the test methods as following:

1. GB/T 14402-2007 Reaction to fire tests for products-Determination of the gross heat of combustion. (Calorific Value);
2. GB/T 20284-2006 Single burning item test for building materials and products.

II. Sample Description

Density	5.79 kg/m^2
Thickness	3.0 mm
Construction	Homogeneous material
Exposed surface	Non-plaid surface

Mounting and fixing (For GB/T 20284):

Test substrate was calcium silicate board meets the requirement of the standard, the density of 900 kg/m^3 and thickness of 10mm.

Specimen was installed on the substrate by screw. There was no joint between specimens. Specimen had a distance of at least 80mm from the backing board.

III. Test Results:

Test method	Parameter		Number of tests	Results
GB/T 14402-2007	PCS[a] (MJ/kg)	Homogeneous product	3	2.5
GB/T 20284-2006	$FIGRA_{0.2MJ}$（W/s）		3	56.8
	$FIGRA_{0.4MJ}$（W/s）			51.0
	LFS< edge of specimen (Yes/No)			Yes
	THR_{600s}（MJ）			1.3
	SMOGRA（m^2/s^2）			21.2
	TSP_{600s}（m^2）			42.1
	Flaming particles or droplets within 600s (Yes/No); Combustion time, if any burning time: (≤10s / >10s)			No

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Remark:

PCS-gross heat of combustion [MJ/kg or MJ/m^2]

FIGRA-Fire growth rate index used for classification purposes [W/s]

For Class A2 and Class B FIGRA= $FIGRA_{0.2MJ}$

For Class C and Class D FIGRA= $FIGRA_{0.4MJ}$

LFS-Lateral flame spread [m]

THR_{600s}-Total heat release within 600 s [MJ]

SMOGRA-Smoke growth rate [m^2/s^2]

TSP_{600s}-Total smoke production within 600 s [m^2]

IV. Classification and direct field of application

This classification has been carried out in accordance with GB 8624-2012 Clause 5.1.1 Table 2 Classes of reaction to fire performance for slab building materials and construction products: The classes with their corresponding fire performance are given in Appendix A.

a) The product in relation to its reaction to fire behaviour is classified:

Reaction to fire classification: GB 8624 A (A2-s1, d0)

b) Field of application

This classification is valid for the following end use applications:

--- With all substrates classified as A1 and A2

--- With mechanically fixing

--- No joint

Appendix A

GB 8624 Table 2 Classes of reaction to fire performance for slab building materials and construction products

Class		Test method(s)		Classification criteria
A	A1	GB/T 5464[a] and		△T≤30℃; △m≤50%; t_f=0 s
		GB/T 14402		PCS≤2.0MJ/kg [a, b, c, e]; PCS≤1.4MJ/m^2 [d]
	A2	GB/T 5464[a] or	and	△T≤50℃; △m≤50%; t_f≤20 s

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Class		Test method(s)		Classification criteria
		GB/T 14402		PCS≤3.0MJ/kg [a, e]; PCS≤4.0MJ/m^2 [b, d]
		GB/T 20284		$FIGRA_{0.2MJ}$≤120W/s; LFS< edge of specimen; THR_{600s}≤7.5 MJ
B_1	B	GB/T 20284	and	$FIGRA_{0.2MJ}$≤120W/s; LFS< edge of specimen; THR_{600s}≤7.5MJ
		GB/T 8626 Exposure =30s		Fs≤150mm within 60s; No ignition of paper within 60s
	C	GB/T 20284	and	$FIGRA_{0.4MJ}$≤250W/s; LFS< edge of specimen; THR_{600s}≤15MJ
		GB/T 8626 Exposure=30s		Fs≤150mm within 60 s; No ignition of paper within 60s
B_2	D	GB/T 20284	and	$FIGRA_{0.4MJ}$≤750W/s
		GB/T 8626 Exposure=30s		Fs≤150mm within 60 s; No ignition of paper within 60s
	E	GB/T 8626 Exposure =15s		Fs≤150mm within 20 s; No ignition of paper within 20s
B_3	F	No performance determined		

[a] For homogeneous products or substantial components of non-homogeneous products.

[b] For any external non-substantial component of non-homogeneous products.

[c] any external non-substantial component having a PCS ≤ 2.0 MJ/m^2 , provided that the product satisfies the following criteria of $FIGRA_{0.2MJ}$ ≤ 20 W/s, and LFS < edge of specimen, and THR_{600s} ≤ 4.0 MJ, and s1, and d0 can be defined A1.

[d] For any internal non-substantial component of non-homogeneous products.

[e] For the product as a whole.

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GB 8624 Table B.1 smoke production levels and grading criterion

SMOGRA	Test Method	Requirement
s1	GB/T 20284	SMOGRA ≤ 30m^2/s^2 ; TSP_{600s} ≤ 50m^2
s2		SMOGRA ≤ 180m^2/s^2 ; TSP_{600s} ≤ 200m^2
s3		not s1 or s2

GB 8624 Table B.2 Burning droplets / particles grades and grading criterion

Burning droplets / particles grades	Test Method	Requirement
d0	GB/T 20284	No flaming droplets/ particles within 600 s
d1		Flaming droplets/ particles persisting longer than 10 s within 600 s
d2		not d0 or d1

Statement:

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

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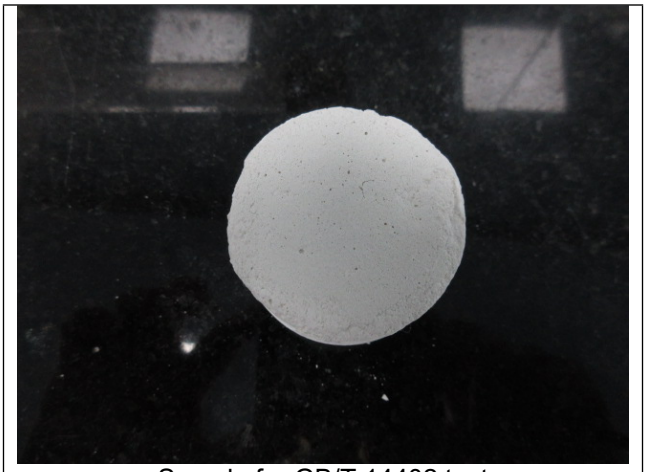
Photo Appendix:



Before Test for GB/T 20284



After Test for GB/T 20284



Sample for GB/T 14402 test

SGS authenticate the photo on original report only

Remark: The report is English version of Chinese test report SDFTS25006414R01_CN. The Chinese version shall prevail in case of discrepancy between the Chinese version and English version.

End of Report

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