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检测
TESTING
CNAS L7877

Test Report

No. SDFS2405003126FF

Date: May 24, 2024

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GUANGDONG TIANAN INTEGRATED DECORATION TECHNOLOGY CO., LTD.

3RD FLOOR, BUILDING T11, ZHIHUIXINCHENG, NO. 28, JIHUA 1ST ROAD, ZHANGCHA TOWN,
CHANCHENG DISTRICT, FOSHAN CITY, CHINA

Sample Description: DIATOM TECHNOLOGY BOARD

Item No.: 9mm*600mm*2600mm

Product usage: WALL TRIM PANELS

The above 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.

The report is English version of Chinese test report SDFS2405003126FF_CN. The Chinese version shall prevail in case of discrepancy between the Chinese version and English version.

SGS Ref. No.: GZHL2405020559HI

Sample Receiving Date: May 08, 2024

Test Performing Date: May 08, 2024 to May 22, 2024

Test Requested:

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 Results: -- See attached sheet --

Conclusion: According to the test result, Combustion properties identified as: GB 8624 B₁ (B-s3,d0)

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

刘楠

Scan to see the report



SDFS2405003126FF
Verification:
check.sgschina.com.cn

Liu Nan
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 20284-2006 Single burning item test for building materials and products;
2. GB/T 8626-2007 Test method of flammability for building materials;

II. Sample Description

Density	6.06kg/m ²
Thickness	9.0mm
Construction	Multi-layer material structure
Exposed surface	Wood grain 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/m³ 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 20284-2006	FIGRA _{0.2MJ} (W/s)	3	71.3
	FIGRA _{0.4MJ} (W/s)		71.3
	LFS< edge of specimen (Yes/No)		Yes
	THR _{600s} (MJ)		6.1
	SMOGRA (m ² /s ²)		66.7
	TSP _{600s} (m ²)		453.1
	Flaming particles or droplets within 600s (Yes/No); Combustion time, if any burning time: (≤10s / >10s)		No
GB/T 8626-2007 Exposure = 30 s	Whether vertical flame spread (Fs) in excess of 150 mm within 60s (Yes/No)	12	No
	Ignition of the filter paper within 60s(Yes/No)		No



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Remark:

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

LFS-Lateral flame spread [m]

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

SMOGRA-Smoke growth rate [m²/s²]

TSP_{600s} – Total smoke production within 600s[m²]

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 B₁ (B-s3, d0)

b) Field of application

This classification is valid for the following end use applications:

--- With all substrates classified as A1 or 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

Table with 3 columns: Class, Test method(s), Classification criteria. It details fire performance classes A1 and A2 with their respective test methods (GB/T 5464, GB/T 14402) and criteria (ΔT, Δm, t_f, PCS).



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		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	
<p>^a For homogeneous products or substantial components of non-homogeneous products.</p> <p>^b For any external non-substantial component of non-homogeneous products.</p> <p>^c any external non-substantial component having a PCS ≤ 2.0 MJ/m² , 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.</p> <p>^d For any internal non-substantial component of non-homogeneous products.</p> <p>^e For the product as a whole.</p>			
<p>Insulation foam metope, in addition to comply with stipulated in table 2 shall be at the same time satisfy the following requirements: B₁ level oxygen index (OI 30% or higher; B₂ level oxygen index (OI 26% or higher)</p>			



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

SMOGRA	Test Method	Requirement
s1	GB/T 20284	SMOGRA $\leq 30\text{m}^2/\text{s}^2$; TSP _{600s} $\leq 50\text{m}^2$
s2		SMOGRA $\leq 180\text{m}^2/\text{s}^2$; TSP _{600s} $\leq 200\text{m}^2$
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:



End of Report



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