

Test Report No.: CZHL260801332201HI Date: OCT. 09, 2026 Page 1 of 17

HUBEI SHEZHI NEW CONSTRUCTION MATERIALS CO., LTD
A17 AREA, 1ST FLOOR, WANDU INTERNATIONAL DOOR INDUSTRY CENTER PROFESSIONAL
MARKET, NO.99 HANXI 3RD ROAD, QIAOKOU DISTRICT, WUHAN CITY

The following sample(s) was/were submitted and identified by/on behalf of the client as:

Sample Description : WPC WALL PANEL

Sample Receiving Date : AUG. 21, 2026
Testing Period : AUG. 21, 2026 TO SEP. 30, 2026
Testing Performed : Follow selected test(s) as requested by client.

	Test Requirement	Conclusion
1	Decorative wallcoverings – Roll and panel form products (EN 15102:2007+A1:2011)	See Results

*** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) ***

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

Test address: 1st, 2nd Floors, Building 30, Heimudan Science Park, Tianning District, Changzhou, Jiangsu, China

Summer Wen

Summer Wen

Authorized Signatory

Scan to see the report



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1. Decorative wallcoverings – Roll and panel form products (EN 15102:2007+A1:2011)

Clause	Test Description	Result
4.1	Reaction to fire	Pass Class: B-s2, d0 (See test results)
4.2	Release of formaldehyde	Pass (See test results)
4.3	Release of dangerous substances	
4.3.1	Heavy metals and specific elements	Pass (See test results)
4.3.2	Release of vinyl chloride monomer	Pass (See test results)
4.4	Sound absorption	NA
4.5	Thermal resistance	0.064 (m ² ·K)/W (See test results)
6	Marking and labelling	Pass

Note: Only artwork of final label was submitted for review at time of testing; as a result, contents were not verified. Some other properties, e.g. height of fonts, printing quality, permanency of label, etc. were not checked.



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Test Results:

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN26-0239897-0001.C001	Light yellow solid material

Remarks:

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

EN 15102:2007+A1:2011 - Vinyl chloride monomer (VCM)

Test Method: With reference to EN 12149:1997 test B, analysis was performed by HS-GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1
Vinyl chloride monomer (VCM)	0.2	mg/kg	0.10	ND

Note: The testing was performed by SGS other internal laboratory.

EN 15102:2007+A1:2011 - Migration of heavy metals and certain other elements

Test Method: With reference to EN 12149:1997 test A, analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A1
Soluble Arsenic(As)	25	mg/kg	5	ND
Soluble Barium(Ba)	500	mg/kg	10	ND
Soluble Cadmium(Cd)	25	mg/kg	5	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND
Soluble Mercury(Hg)	20	mg/kg	5	ND
Soluble Lead(Pb)	90	mg/kg	5	9
Soluble Antimony(Sb)	-	mg/kg	5	ND
Soluble Selenium(Se)	165	mg/kg	10	ND

Note: The testing was performed by SGS other internal laboratory.



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EN 15102:2007+A1:2011 - Formaldehyde Release

Test Method: With reference to EN 12149:1997 test C, analysis was performed by UV-Vis.

Test Item(s)	Limit	Unit(s)	MDL	A1
Formaldehyde Release	120	mg/kg	20	ND

Note: The testing was performed by SGS other internal laboratory.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($\mu \neq 0$) stated in ILAC-G8:09/2019.



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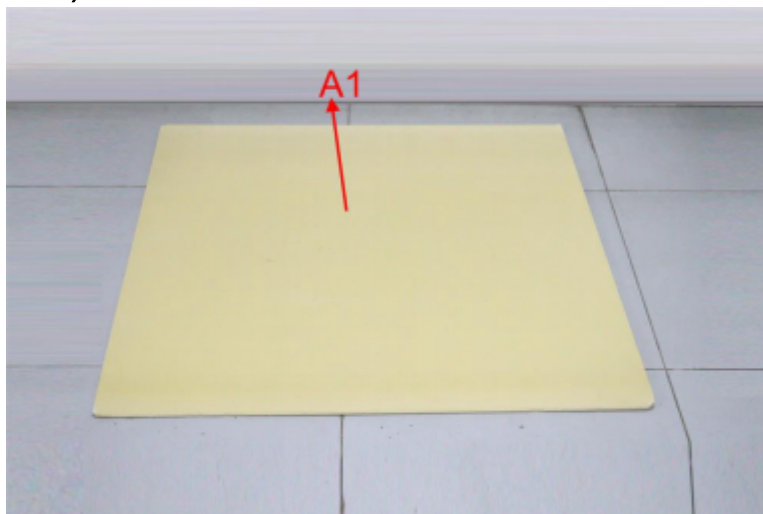
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Sample Photo (As received):



SGS authenticate the photo on original report only



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Test Item: Thermal Conductivity and Thermal Resistance

Test Method: EN 12664:2001 Heat Flow Meter Method

Test Condition:

Specimen: 304mm×303mm×8.0mm, 1pc

Mean temperature: 23°C

Temperature difference: 20°C

Test Result:

Test Item	Test Result
Thermal Conductivity	0.125 W/(m·K)
Thermal Resistance	0.064 (m²·K)/W

Note:

1. 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.
2. The testing was performed by SGS other internal laboratory.

The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc... and just for internal reference.



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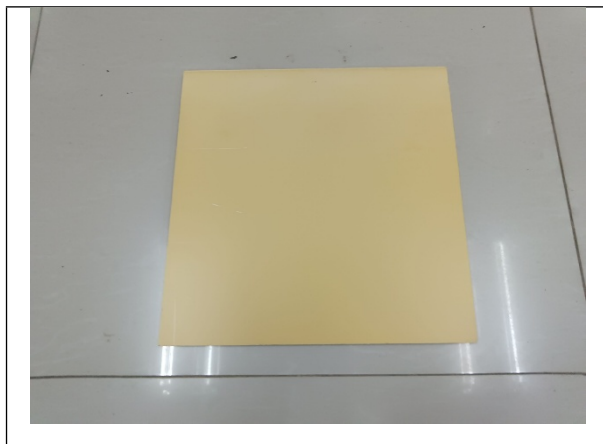
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Original Sample Photo(s):



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I. Test conducted

This test is conducted as per EN 13501-1:2018 Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests. And the test methods as following:

1. EN 13823:2020+A1:2022 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item.
2. EN ISO 11925-2:2020 Reaction to fire tests — Ignitability of products subjected to direct impingement of flame — Part 2: Single-flame source test.

II. Details of classified product

a) Nature and end use application

The product "WPC Wall Panel" is defined as a decorative sheet. Its classification is valid for the following end use application: Indoor decorative materials.

b) Description

Description	WPC Wall Panel
Color	Yellow
Sample size	EN 13823: 1500mm×1000mm & 1500mm×495mm EN ISO 11925-2: 250mm×90mm
Thickness	7.8mm
Mass per unit area	5.9 kg/m ²
Tested (Exposed) surface	Any surface

Mounting and fixing:

Gypsum plaster board, with its density approximate (700±100) kg/m³, thickness approximate (12.5±0.5) mm, is as the substrate. The test specimens are fixed mechanically to the substrate with screws. Have horizontal joints in the long wing of the specimens.



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III. Test results

Test method	Parameter	Number of tests	Results
EN 13823	FIGRA _{0.2MJ} (W/s)	3	58.5
	FIGRA _{0.4MJ} (W/s)		58.5
	Whether lateral flame spread (LFS) to the edge of specimen (Yes/No)		No
	THR _{600s} (MJ)		6.2
	SMOGR (m ² /s ²)		20.1
	TSP _{600s} (m ²)		148.0
	Flaming particles or droplets (Yes/No)		No
EN ISO 11925-2 Exposure = 30 s	Whether vertical flame spread (Fs) in excess of 150 mm within 60s (Yes/No)	12	No
	Ignition of the filter paper (Yes/No)		No

* For the test details, please see appendix 1 and appendix 2 of this test report.

IV. Classification and field of application

a) Reference of classification

This classification has been carried out in accordance with **EN 13501-1:2018**.

b) Classification

The product, WPC Wall Panel, in relation to its reaction to fire behaviour is classified:

Fire behaviour		Smoke production		Flaming droplets
B	—	s	2	, d 0

Reaction to fire classification: B—s2, d0

Remark: The classes with their corresponding fire performance are given in Annex A.



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c) Field of application

This classification is valid for the following end use applications:

- With substrates classified as Euroclass A1 or A2-s1, d0 and at least 75% of the nominal value of the density of standard substrate.
- Mechanical fixing
- Have horizontal joints

This classification is valid for the following product parameters:

- Characteristics as described in section II b) of this test reports.

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.

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.

Warning:

This classification report does not represent type approval or certification of the product.



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Annex A

Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products

Class	Test method(s)	Classification criteria	Additional classification
A1	EN ISO 1182 ^a and	$\Delta T \leq 30^\circ\text{C}$, and $\Delta m \leq 50\%$, and $t_f = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	$PCS \leq 2.0\text{MJ/kg}$ ^a and $PCS \leq 2.0\text{MJ/kg}$ ^{b,c} and $PCS \leq 1.4\text{MJ/m}^2$ ^d and $PCS \leq 2.0\text{MJ/kg}$ ^e	-
A2	EN ISO 1182 ^a or	$\Delta T \leq 50^\circ\text{C}$, and $\Delta m \leq 50\%$, and $t_f \leq 20\text{ s}$	-
	EN ISO 1716 and	$PCS \leq 3.0\text{MJ/kg}$ ^a and $PCS \leq 4.0\text{MJ/m}^2$ ^b and $PCS \leq 4.0\text{MJ/m}^2$ ^d and $PCS \leq 3.0\text{MJ/kg}$ ^e	-
	EN 13823	$FIGRA_{0.2\text{MJ}} \leq 120\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600\text{s}} \leq 7.5\text{MJ}$	Smoke production ^f and Flaming droplets/particles ^g
B	EN 13823 and	$FIGRA_{0.2\text{MJ}} \leq 120\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600\text{s}} \leq 7.5\text{MJ}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure = 30s	$F_s \leq 150\text{mm}$ within 60s	
C	EN 13823 and	$FIGR_{0.4\text{MJ}} A \leq 250\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600\text{s}} \leq 15\text{MJ}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure = 30s	$F_s \leq 150\text{mm}$ within 60 s	
D	EN 13823 and	$FIGRA_{0.4\text{MJ}} \leq 750\text{W/s}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure = 30s	$F_s \leq 150\text{mm}$ within 60 s	
E	EN ISO 11925-2 ⁱ Exposure = 15s	$F_s \leq 150\text{mm}$ within 20 s	flaming droplets/particles ^h
F	EN ISO 11925-2 ⁱ Exposure = 15 s	$F_s > 150\text{mm}$ within 20 s	



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- ^a For homogeneous products and substantial components of non-homogeneous products.
- ^b For any external non-substantial component of non-homogeneous products.
- ^c Alternatively, any external non-substantial component having a $PCS \leq 2,0 \text{ MJ/m}^2$, provided that the product satisfies the following criteria of EN 13823: $FIGRA \leq 20 \text{ W/s}$, and $LFS < \text{edge of specimen}$, and $THR_{600s} \leq 4,0 \text{ MJ}$, and $s1$, and $d0$.
- ^d For any internal non-substantial component of non-homogeneous products.
- ^e For the product as a whole.
- ^f $s1 = SMOGRA \leq 30 \text{ m}^2/\text{s}^2$ and $TSP_{600s} \leq 50 \text{ m}^2$; $s2 = SMOGRA \leq 180 \text{ m}^2/\text{s}^2$ and $TSP_{600s} \leq 200 \text{ m}^2$; $s3 = \text{not } s1 \text{ or } s2$
- ^g $d0 = \text{No flaming droplets/ particles in EN 13823 within 600 s}$;
 $d1 = \text{no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s}$;
 $d2 = \text{not } d0 \text{ or } d1$.
 Ignition of the paper in EN ISO 11925-2 results in a $d2$ classification.
- ^h Pass = no ignition of the paper (no classification);
 Fail = ignition of the paper ($d2$ classification).
- ⁱ Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.



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APPENDIX 1: EN 13823:2020+A1:2022

Test Conducted

The test was conducted in accordance with EN 13823:2020+A1:2022 Reaction to fire tests for building products
- Building products excluding floorings exposed to the thermal attack by a single burning item.

Conditioning

Before testing, test specimens shall be conditioned at a temperature of $23 \pm 2^\circ\text{C}$ and a relative humidity of $50 \pm 5\%$ for at least 48h until constant mass is achieved.

Substrates and mounting method of specimen

Gypsum plaster board, with its density approximate $(700 \pm 100) \text{ kg/m}^3$, thickness approximate $(12.5 \pm 0.5) \text{ mm}$, is as the substrate. The test specimens are fixed mechanically to the substrate with screws. Have horizontal joints in the long wing of the specimens.

Test Results

Items	Specimen 1	Specimen 2	Specimen 3	Average
FIGRA _{0.2MJ} (W/s) ¹⁾	53.6	52.7	69.1	58.5
FIGRA _{0.4MJ} (W/s) ¹⁾	53.6	52.7	69.1	58.5
THR _{600s} (MJ)	6.5	5.5	6.5	6.2
SMOGRA (m ² /s ²)	19.1	15.6	25.5	20.1
TSP _{600s} (m ²)	137.9	117.2	188.8	148.0
Visual observation and manual recording of data				
LFS < edge of specimen	Yes	Yes	Yes	
Flaming particles or droplets	No	No	No	

FIGRA (W/s)	Fire growth rate index; Maximum of the quotient of heat release rate from the specimen and the time of its occurrence using a THR threshold of 0.2MJ or 0.4 MJ.
THR _{600s} (MJ)	Total heat release from the specimen in the first 600 s of exposure to the main (primary) burner flames
SMOGRA (m ² /s ²)	Smoke growth rate index. The maximum of the quotient of smoke production rate from the specimen and the time of its occurrence.
TSP _{600s} (m ²)	Total smoke production from the specimen in the first 600 s of exposure to the main (primary) burner flames



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APPENDIX 2: EN ISO 11925-2:2020

Test Conducted

This test was conducted in accordance with EN ISO 11925-2:2020 Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test, Flame application time: 30s.

Conditioning

Before testing, test specimens shall be conditioned at a temperature of $23 \pm 2^\circ\text{C}$ and a relative humidity of $50 \pm 5\%$ for at least 48h until constant mass is achieved.

Test Results

Flame application time: 30s

(A) Surface ignition

Parameter	1	2	3	4	5	6
Occurrence of ignition (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes
Whether flame reaches 150 mm (Yes/No)	No	No	No	No	No	No
Time to reach 150mm (s)	NA	NA	NA	NA	NA	NA
Ignition of the filter paper (Yes/No)	No	No	No	No	No	No

(B) Bottom edge ignition

Parameter	1	2	3	4	5	6
Occurrence of ignition (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes
Whether flame reaches 150 mm (Yes/No)	No	No	No	No	No	No
Time to reach 150mm (s)	NA	NA	NA	NA	NA	NA
Ignition of the filter paper (Yes/No)	No	No	No	No	No	No

Remark: NA = Not applicable

Note: The testing was performed by SGS other internal laboratory.



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Test Report

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Photo Appendix:



SGS authenticate the photo on original report only



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Test Report

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Photo Appendix

Photo relative to overall specimen:

CE	
HUBEI SHEZHI NEW CONSTRUCTION MATERIALS CO., LTD	
ROOM A17, FLOOR 1, NO.99 HANXI 3RD ROAD, QIAOKOU DISTRICT, WUHAN CITY, HUBEI PROVINCE, China	
26	
Declaration of Performance SZ-2026-001	
EN 15102:2007+A1:2011	
WPC WALL PANEL	
Reaction to fire :	B-s2,d0
Formaldehyde emission:	Pass
Release of dangerous substances:	
Heavy metals and specific elements:	Pass
Release of vinyl chloride monomer (VCM):	Pass
Sound absorption:	NPD
Thermal resistance:	0.064(m ² ·K)/W

Received artwork of marking

Result/Rating/Record Key(s)

- Result/Rating Keys: P = Pass = Meet; F = Fail = Not Meet; NA = Not applicable = Not suitable; NR = NC = Test not conduct/requested per client request; TT = Test terminated due to the earlier failure of last test.
- Record Keys: "C:" means Claimed parameter; "A:" means Actual recorded from test; "D:" means Data for reference only.

General Report Note(s)

- N.B. Only applicable clauses were shown.
- (1) 1mg/kg = 0.0001% (2) MDL = Method Detection Limit (3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated
- Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.
- This document cannot be used for publicity, without prior written approval of the SGS.
- 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



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is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion. Testing results only apply to the sample as received.

- F. 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 ***



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