

GUANGZHOU WOODTEH CO.,LTD

NO. 12, INDUSTRIAL CLUSTER DEVELOPMENT ZONE, XIAMAO TOWN, SIHUI CITY,  
GUANGDONG PROVINCE,CHINA

Sample Description : WPC DECKING

Item No. : 150S23

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.

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Sample Receiving Date : Oct 22, 2022

Test Performing Date : Oct 27, 2022 to Mar 01, 2023

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. Shunde Branch



Peter Zhao  
Authorized Signatory

scan to see the report



SDHL2210021742HI



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Shunde Branch Huaimen

1/F, 1<sup>st</sup> Building European Industrial Park, No.1 Shunde South Road, Wusha Section, DaLiang Town, Shunde, Foshan, Guangdong, China 528333 t (86-757)22805888 f (86-757)22805858 www.sgs.com.cn  
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**Test Result Summary**

No.	Test item	Test(s) Requested(Method)	Result(s)	Comments	
Part 1	1	Linear Mass	EN 15534-1:2014+A1-2017 Section 6.5 & Client's Requirement	Pass	Sample A
	2	Dimensional characteristics	EN 15534-1:2014+A1-2017 Section 6.6 & Client's Requirement	Pass	Sample A
	3	Falling Mass Impact Resistance	EN 15534-1:2014+A1-2017 Section 7.1.2.1 & EN 477-2018 & Client's Requirement	Pass	Sample A
	4	Flexural Properties	EN 15534-1:2014+A1-2017 Section 7.3.2 & Annex A & Client's Requirement	Pass	Sample B
	5	Resistance to Artificial Weathering	EN 15534-1:2014+A1-2017 Section 8.1 & ISO 4892-2:2013 Cycle 1 & ISO 105-A02:1993/Cor.2:2005 & Client's Requirement	Pass	Sample A
	6	Moisture resistance-Boiling	EN 15534-1:2014+A1-2017 Section 8.3.3 & Client's Requirement	Pass	Sample A
	7	Resistance to salt spray	EN 15534-1:2014+A1-2017 Section 8.6 & EN ISO 9227:2017 & EN 20105-A02-1995 & Client's Requirement	Pass	Sample A
Part 2	1	Flexural Properties	EN 15534-1:2014+A1:2017 Section 7.3.1 & EN ISO 178:2019 Method A & client's requirement	Pass	/
Part 3	1	Slip Resistance	EN 15534-1:2014 +A1:2017 Clause 6.4.2 & CEN/TS 15676:2007	Pass	/
	2	Inclination plan test (wet/ barefoot ramp test)	Refer to EN 15534-1:2014+A1:2017 Clause 6.4.3 & EN 13451-1:2011 Annex E	Pass	/

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



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**Test Information:**

**Part 1:**

Sample description: See photo

1. Test item: Linear Mass

Test method: EN 15534-1:2014+A1-2017 Section 6.5 & Client's Requirement

Test condition:

Sample size: 1072mm×149mm×23mm

Test environment: 22.5℃, 52%RH

Test results:

Linear Mass	Client's Requirement	Conclusion
4169 g/m	≥3850g/m	Pass

2. Test item: Dimensional characteristics

Test method: EN 15534-1:2014+A1-2017 Section 6.6 & Client's Requirement

Test condition:

Sample size: 1072mm×149mm×23mm

Test environment: 22.5℃, 52%RH

Test results:

Test result			Client's Requirement	Conclusion
Length (mm)	Ave	1072	/	/
	Max	1072		
	Min	1072		
Width (mm)	Ave	148.70	/	/
	Max	149.40		
	Min	148.30		



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Test result			Client's Requirement	Conclusion
Thickness (mm)	Ave	23.10	Ave $\leq \pm 0.2\text{mm}$ (22.8~23.2) mm	Pass
	Max	23.15	Individual (Max) $\leq \pm 0.4\text{mm}$ (22.6~23.4) mm	
	Min	23.10		
Deviation from Straightness (%)	Ave	0.06	Ave $\leq 0.3\%$	Pass
	Max	0.08	Individual (Max) $\leq 0.4\%$	
	Min	0.03		
Cupping (%)	Ave	0.06	Ave $\leq 0.2\%$	Pass
	Max	0.07	Individual (Max) $\leq 0.3\%$	
	Min	0.03		



3 Test item: Falling Mass Impact Resistance

Test method: EN 15534-1:2014+A1-2017 Section 7.1.2.1 & EN 477-2018 & Client's Requirement

Test condition:

Specimen: 300mm×149mm×23mm

Weight of steel ball: 1000g

Diameter of steel ball: 50mm

Falling height: 700mm

Span: 200mm

Test environment: 22.4℃, 51%RH

Test results:

Test results		Client's Requirement	Conclusion	
Appearance	No crack	/	Pass	
Depth of residual indentation (mm)	Ave	0.14		Ave ≤ 0.30mm
	Max	0.18		Individual (Max) ≤ 0.40mm
	Min	0.09		

4. Test item: Flexural Properties

Test method: EN 15534-1:2014+A1-2017 Section 7.3.2 & Annex A & Client's Requirement

Test condition:

Test span: 460mm

Test rate: 17.02mm/min

Sample size: 560mm×149mm×23mm

Test environment:

Test result:

Test results		Client's Requirement	Conclusion	
Bending strength (N)	Arithmetic mean value	6390	Ave ≥ 3400N	Pass
	The minimum individual value	6224	Min ≥ 3000N	Pass
Deflection under a load of 500N (mm)	Arithmetic mean value	1.19	Ave ≤ 1.20mm	Pass
	Maximum individual mean value	1.33	Max ≤ 1.35mm	Pass



5. Test Item: Resistance to Artificial Weathering

Test Method: EN 15534-1:2014+A1-2017 Section 8.1 & ISO 4892-2:2013 Cycle 1 & ISO 105-A02:1993/Cor.2:2005  
& Client's Requirement

Test Condition:

Exposure cycle:

ISO 4892-2:2013 cycle 1

Irradiance: (0.51±0.02)W/(m<sup>2</sup>·nm)@340nm

102 min light at (65±3)°C BST, (38±3)°C CT, (50±10)%RH

18 min light and water spray

Filter: Daylight

Exposure periode:300h

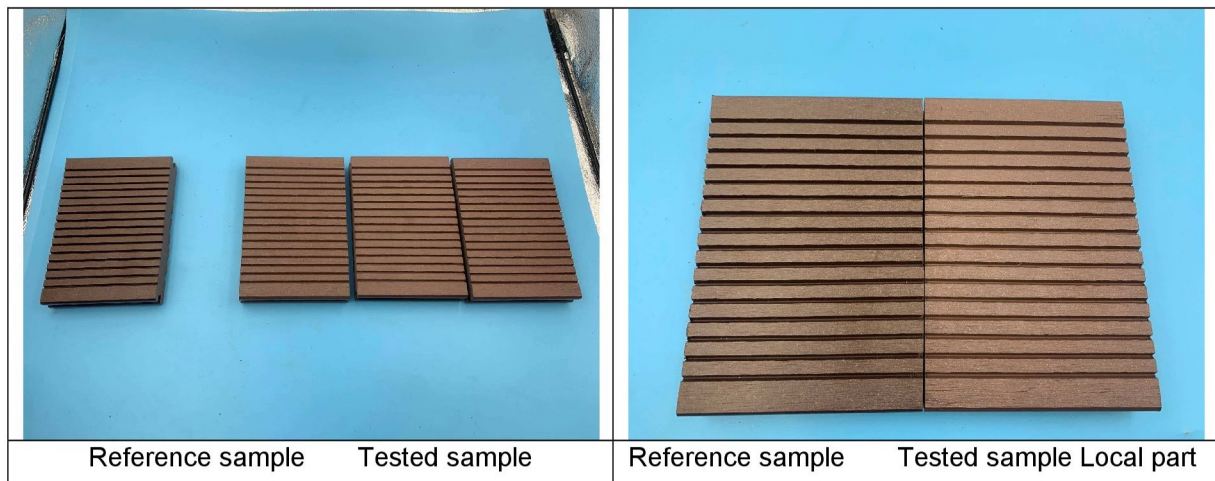
Test Result:

Test Results		Client's Requirement	Conclusion
Grey scale	4	Grey scale ≥ 4	Pass
Δ E*ab	2.1		

Note:

1. According to ISO 105-A02:1993/Cor.2:2005, the grey scale was determined under the D65 standard light, with scale 5 as the best and scale 1 as the worst.
2. Δ E\*ab was measured by multi-angle colorimeter under D65 standard light source and with 10° observer. The results include specular component reflection condition, 25 mm aperture

Test Photo:



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6. Test item: Moisture resistance- Boiling

Test method: EN 15534-1:2014+A1-2017 Section 8.3.3 & Client's Requirement

Test condition:

- ① Immersion in boiling water, 5h;
- ② After 5h storage in boiling water, immediately immersed in cold water at  $(20 \pm 2) ^\circ\text{C}$ , 15min.

Test result:

	Test results		Client's Requirement	Conclusion
Length	Average	0.08%	Ave $\leq$ 0.1%	Pass
	Individual (Max)	0.12%	Max $\leq$ 0.2%	
Width	Average	0.45%	Ave $\leq$ 0.5%	Pass
	Individual (Max)	0.55%	Max $\leq$ 0.6%	
Thickness	Average	1.15%	Ave $\leq$ 2.5%	Pass
	Individual (Max)	1.64%	Max $\leq$ 3.0%	
Water absorption	Average	0.77%	Ave $\leq$ 0.8%	Pass
	Individual (Max)	0.81%	Max $\leq$ 0.9%	

7. Test Item: Resistance to salt spray

Test Method: EN 15534-1:2014+A1-2017 Section 8.6 & EN ISO 9227:2017 & EN 20105-A02-1995  
& Client's Requirement

Test Condition:

- Concentration of solution collected:  $(50 \pm 5)\text{g/l NaCl}$
- Chamber temperature:  $(35 \pm 2) ^\circ\text{C}$
- Volume of salt solution collected:  $(1.5 \pm 0.5)\text{ ml}/(80\text{cm}^2 \cdot \text{h})$
- pH of collected solution at  $(25 \pm 2) ^\circ\text{C}$ : 6.5~7.2
- Exposure period: 300h

Test Result:

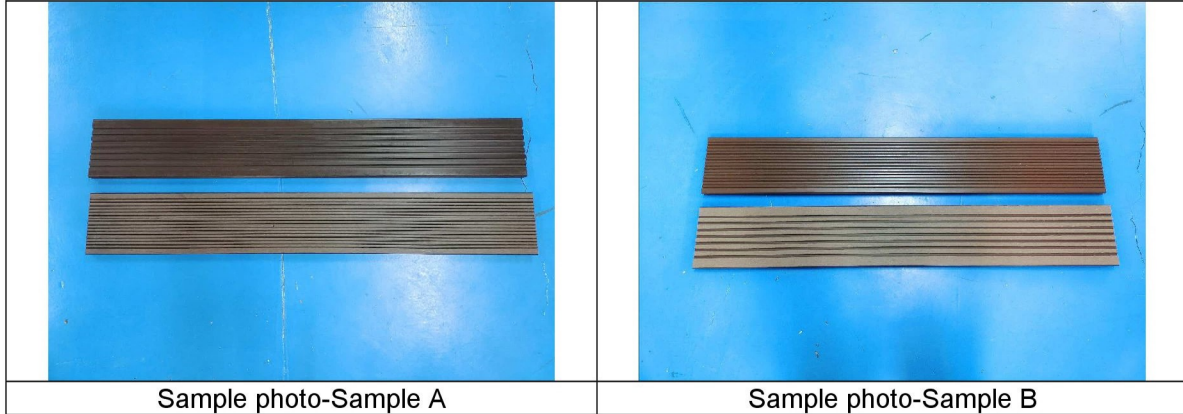
$\Delta E^*ab$	Client's Requirement	Conclusion
0.39	$\Delta E^*ab \leq 4.0$	Pass



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Photo Appendix:



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



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Part 2 (SGS Ref. No.: GZIN2210007001CM)

Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Flexural Properties	EN 15534-1:2014+A1:2017 Section 7.3.1 & EN ISO 178:2019 Method A and client's requirement	Flexural Strength: 52.8MPa	Pass
			Flexural Modulus: 5403MPa	

Note: Pass : Meet the requirements;  
 Fail : Does not meet the requirements;  
 / : Not Apply to the judgment.

Original Sample Photo:



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Test Item: Flexural Properties

Sample Description: Bar

Test Method: EN 15534-1:2014+A1:2017 Section 7.3.1 & EN ISO 178:2019 Method A and client's requirement

Test Condition:

Specimen: 80mm×10.48mm×4.13mm

Testing speed: 2mm/min

Span: 64mm

Lab Environmental Condition: 23.0°C, 50.5%RH

### Test Result:

Test Item	Test Result	Client's Requirement	Conclusion
Flexural Strength	52.8MPa	≥35MPa	Pass
Flexural Modulus	5403MPa	≥3500MPa	Pass

Note: All test specimens were cut from the sample

Test Photo:

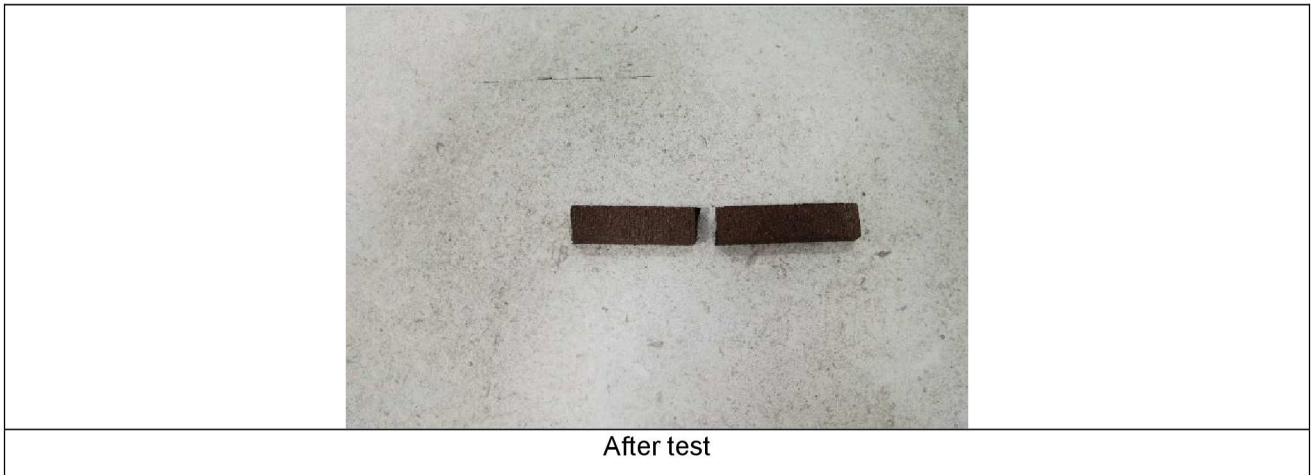


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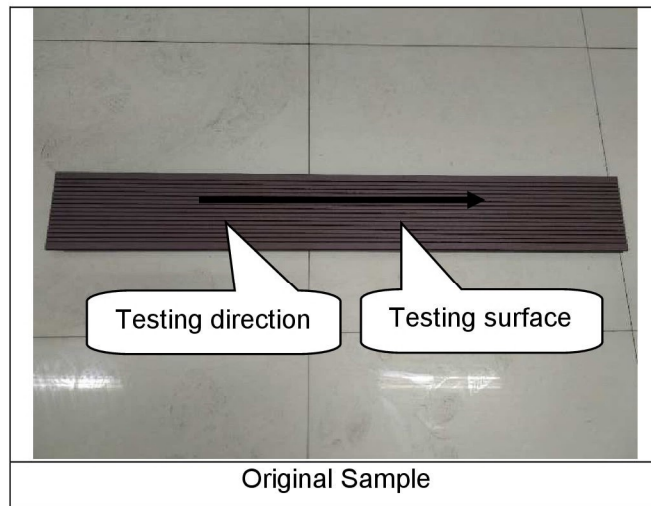
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**Part 3 (SGS Ref. No.: XMIN2210009190CM)**

Summary of Results:

No.	Test Item	Test Method	Client's requirements	Result	Conclusion
1	Slip Resistance	EN 15534-1:2014 +A1:2017 Clause 6.4.2 & CEN/TS 15676:2007	SRV "dry": ≥60	SRV "dry":74	Pass
2	Inclination plan test (wet/ barefoot ramp test)	Refer to EN 15534- 1:2014+A1:2017 Clause 6.4.3 & EN 13451-1:2011 Annex E	Class C (≥24°)	Critical angle of inclination: 24° Class C	Pass

Original Sample Photo:



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1. Slip Resistance

**Test Method:**

EN 15534-1:2014+A1:2017 Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC))

Part 1: Test methods for characterisation of compounds and products - Clause 6.4.2

And CEN/TS 15676:2007 Wood flooring-Slip resistance-Pendulum test

Rubber slider: slider 57(CEN Rubber)

**Sample Description:**

WPC, 200mm×150mm, 10pcs, see photo

**Test Result:**

Testing surface & testing direction: see photo

Specimens identification No.	1	2	3	4	5	6	7	8	9	10
Mean of British Pendulum Number (for each test surface)	76	75	71	75	73	75	75	75	74	72
Slip resistance value (SRV "dry")	74									



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SGS-CSTC Inspection & Testing Services Co., Ltd.  
Shunde Branch Hairuimes

1F, 1 Building European Industrial Park, No.1 Shunde South Road, Wusha Section, Daliang Town, Shunde, Foshan, Guangdong, China 528333 t (86-757)22805888 f (86-757)22805858 www.sgsgroup.com.cn  
中国·广东·佛山市顺德区大良街道办事处五沙顺和南路1号欧洲工业园一号厂房首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com

2. Inclination plan test (wet/ barefoot ramp test)

**Test Method:**

Refer to EN 15534-1:2014+A1:2017 Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC))

Part 1: Test methods for characterisation of compounds and products - Clause 6.4.3

And EN 13451-1:2011 Annex E

Test solution: potable water with a uniform concentration of 1 g/L sodium lauryl sulfate

**Sample Description:**

WPC, 3pcs specimens of 1050mm×150mm form a testing surface of 1050mm×450mm, See the photo(s)

**Test Result:**

Testing surface& testing direction: see photo

Test item(s)	Test result(s)	Rating group	Requirements of EN 13451-1:2011
Inclination plan test (wet/ barefoot ramp test)	Critical angle of inclination: 24°	Class C	Class C (≥24°)

Note: there was no calibration board (standard surface) used for test.

**Evaluation of the test results according to three rating classes:**

Rating group	Angle of Inclination (°)
Class A: 12°	12° ≤X≤17°
Class B: 18°	18° ≤X≤23°
Class C: 24°	X≥24°

**Remark:** Part 3 test was subcontracted to SGS-CSTC Standards Technical Services Co., Ltd Xiamen Branch Testing Center.

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



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 中国·广东·佛山市顺德区大良街道办事处五沙顺和南路1号欧洲工业园一号楼首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com