Huangshan Huasu New Material Science & Technology Co., Ltd

TEST REPORT

SCOPE OF WORK
Co-Extrusion Composite Decking

REPORT NUMBER
230322002SHF-001

TEST DATE(S)
2023-03-22 - 2023-04-23

ISSUE DATE
2023-04-23

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9

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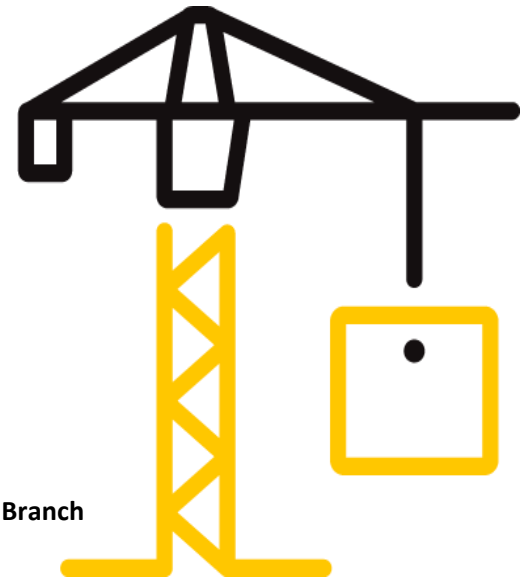

Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch

Test Report

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Test Report

Issue Date: 2023-04-23 Intertek Report No. 230322002SHF-001

Applicant: Huangshan Huasu New Material Science & Technology Co., Ltd

Address: ChengBei Industrial Zone, Huizhou district, Huangshan city, Anhui Province, China

Attn: Feifei Zhang

Manufacturer: Huangshan Huasu New Material Science & Technology Co., Ltd

Address: ChengBei Industrial Zone, Huizhou district, Huangshan city, Anhui Province, China

Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Co-Extrusion Composite Decking	**Brand**	/
Sample Description	Good Condition	**Sample Amount**	24 pcs
		Received Date	2023-03-20

Sample ID	**Model**	**Specification**
S230322002SHF.001~005	138S23-K	/

Test Methods And Standards

Test Standard	ASTM D4442-20 Method B, ASTM D2240-15(2021), ASTM D7032-21 Section 4.4, ASTM D6109-19 Method A, ASTM D6007-22, With reference to ASTM F963-17
Specification Standard	/
Test Conclusion	The samples were tested according to the above standards, and the results are shown in the following page.

Note:

1.This report does not involve sampling. The report only reflects conformity of the tested items of the samples provided by the testing applicant. Representativeness and authenticity of the submitted samples are responsibilities of the testing applicant.

Report Authorized

Name: Daniel Zhang Name: Erin Huang

Title: Reviewer Title: Project Engineer

Test Report

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Test Items, Method and Results:

Test Item: Moisture Content
Test Method: ASTM D4442-20 Method B
Conditioning: Dry conditioned at a relative humidity of 50±5 % and a temperature of 23±2°C
Test Condition: Dry in oven at 103±2°C to endpoint

Results:

Moisture content: 0.31%

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Test Items, Method and Results：

Test Item: Hardness

Test Method: ASTM D2240-15(2021)

Conditioning: Condition the test specimens at (23 ± 2)°C and (50 ± 5)% relative humidity for at least 24h

Test Result:

Average value:	Shore D: 66.2
Max. value:	Shore D: 68.2
Min. value:	Shore D: 64.2

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Test Items, Method and Results:

Test Item: Flexural properties

Sample Condition: 40 hours at a temperature of 23±2°C and relative humidity of 50±5%

Test Span: 368 mm

Test Items	Test Method	Test Results	
Flexural Properties	ASTM D7032-21 Section 4.4 ASTM D6109-19 Method A	Flexural strength (MOR): Flexural Stiffness (MOE):	26.8 MPa 3779 MPa

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Test Items, Method and Results:

Test Item: Formaldehyde content test

Test Method: As per ASTM D6007-22 small scale chamber method, formaldehyde content was detected by UV-VIS spectrophotometer.

Test condition:

Chamber type:	1 m^3 stainless steel chamber
Climatic conditions:	(25±1)°C, (50±4)% R.H.
Air exchange rate:	0.5 h^{-1}
Loading factor:	0.43 m^2/m^3
Test result:	ND

Note:

1. ppm = parts of formaldehyde per million parts air
2. Detection limit = 0.02 ppm
3. ND = Not detected (less than the detection limit)
4. The sample was conditioned at (24±3)°C, (50±5)% relative humidity for seven days before the testing.
5. Test location: Central Chemical Lab of Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Address: Room 401, No. 8, East BaoYing Road, Huangpu District, Guangzhou 510730, China

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Test Items, Method and Results:

Test Item: Soluble elements analysis in non-surface coating materials

Test Method: With reference to section 4.3.5.2(2)(b) of the ASTM standard consumer safety specification on toy safety F963-17, acid extraction method was used and heavy metal elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

Test Item	Test Result (ppm)	Detection Limit (ppm)	Limit in ASTM F963 (ppm)
Soluble Barium (Ba)	ND	5	1000
Soluble Lead (Pb)	ND	5	90
Soluble Cadmium (Cd)	ND	5	75
Soluble Antimony (Sb)	ND	5	60
Soluble Selenium (Se)	ND	5	500
Soluble Chromium (Cr)	ND	5	60
Soluble Mercury (Hg)	ND	5	60
Soluble Arsenic (As)	ND	2.5	25

Note:

1. ppm = parts per million = mg/kg

2. ND = Not detected (less than the detection limit)

3. Test location: Central Chemical Lab of Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Address: Room 401, No. 8, East BaoYing Road, Huangpu District, Guangzhou 510730, China

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Appendix A: Sample Received Photo

Front view & Back view

Section view

Revision:

NO.	Date	Changes
230322002SHF-001	2023-04-23	First issue