

# Nanjing Jufeng Advanced Materials Co., Ltd

## TEST REPORT

**SCOPE OF WORK**

Co-extrusion WPC

**REPORT NUMBER**

190709012SHF-002

**TEST DATE(S)**

2019-07-09 - 2019-09-06

**ISSUE DATE**

2019-09-06

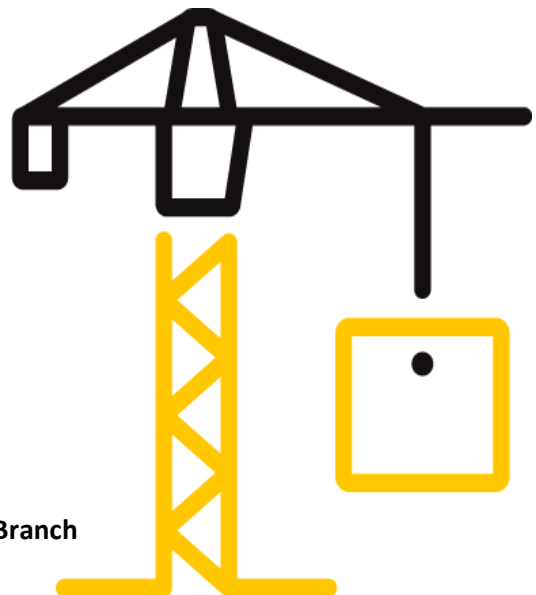
**PAGES**

8

**DOCUMENT CONTROL NUMBER**

LFT-APAC-SHF-OP-10k(May 1, 2019)

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## Test Report

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## Test Report

Issue Date: 2019-09-06 Intertek Report No. 190709012SHF-002  
 Applicant: Nanjing Jufeng Advanced Materials Co., Ltd  
 Address: No.6, Chuangye Road, Nanjing High&New Tech Zone, Nanjing  
 Attn: Fangzheng Zhu  
 Test Type : Performance test, samples provided by the applicant.

### Product Information

<b>Product Name</b>	Co-extrusion WPC	<b>Brand</b>	Jufeng
<b>Sample Description</b>	Good Condition	<b>Sample Amount</b>	1 package
		<b>Received Date</b>	2019-06-28
<b>Sample ID</b>	<b>Model</b>	<b>Specification</b>	
S190709012SHF.001,003~005	138*23 Hollow	/	


### Test Methods And Standards

<b>Test Standard</b>	EN 15534-1:2014+A1:2017, CEN/TS 15676:2007, ISO 16869:2008
<b>Specification Standard</b>	EN 15534-4:2014
<b>Test Conclusion</b>	The samples were tested according to the above standards, and the results are shown in the following page.

#### Note:

1.This report relates specifically to the sample(s) that were drawn and provided by the applicant or their nominated third party. The reported result(s) provide no warranty or verification on the sample(s) representing any specific goods and/or shipment and only relate to the sample(s) as received and tested.

### Report Authorized


  
 Name: Torres Qi      Name: Tod Qian  
 Title: Reviewer      Title: Project Engineer

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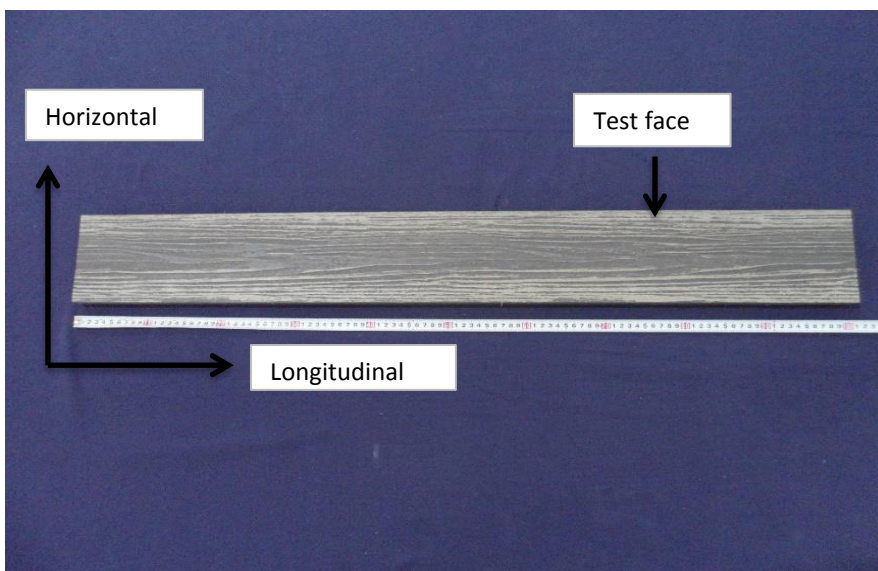
### Test Items, Method and Results:

EN 15534-4:2014 Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) Part 4: Specifications for decking profiles and tiles

Test Items	Test Method	Test Results	Test requirements	Verdict
Slipperiness (Pendulum test)	EN 15534-1:2014+A1:2017 Section 6.4.2	Longitudinal direction Mean: 76 Min.: 74	Pendulum value $\geq$ 36	Pass
	CEN/TS 15676:2007 EN 15534-4:2014 Section 4.4	Horizontal direction Mean: 92 Min.: 90		

Note:

1. Requirement is cited from EN 15534-4:2014 Table 1.
2. Test surface and direction please refer to below picture.



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Test Items	Test Method	Test Results	Test requirements	Verdict
Flexural properties	EN 15534-1:2014+A1:2017 Annex A EN 15534-4:2014 Section 4.5.2	Bending Strength: 30.7 MPa Modulus of elasticity: 3.6 GPa Maximum load: Mean: 3771 N Min.: 3622 N Deflection at 500N: Mean: 1.20 mm Max.: 1.28 mm	Flexural properties -F'max: Mean $\geq$ 3300 N Min. $\geq$ 3000 N -Deflection under a load of 500 N Mean $\leq$ 2,0 mm Max. $\leq$ 2,5 mm	Pass

Note:

1. The test span was 400mm offered by applicant

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Test Items	Test Method	Test Results	Test requirements	Verdict
Moisture resistance under cyclic test conditions	EN 15534-1:2014+A1:2017 Section 8.3.2 EN 15534-4:2014 Section 4.5.5	Original MOR: 30.7 MPa After exposure, Mean MOR: 28.1 MPa Decrease: 9 % Min MOR: 26.4 MPa Decrease: 14 %	Decrease of bending strength, Mean $\leq$ 20 % Max. $\leq$ 30 %	Pass

Note:

1. The test span was 400mm offered by applicant

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EN 15534-4:2014 Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) Part 4: Specifications for decking profiles and tiles

Test item: ISO 16869:2008 Plastics - Assessment of the effectiveness of fungistatic compounds in plastics formulations

Test organisms:

Aspergillus niger ATCC 6275, Chaetomium globosum ATCC 6205, Paecilomyces variotii CBS 628.66, Penicillium funiculosum ATCC 9644, Trichoderma longibrachiatum ATCC 13631

Test condition: 21days, Humidity > 85%RH, Temperature: 25°C

Rating evaluation:

Rating	Growth	Interpretation
0	No growth	The material is resistant to fungal attack
1	Initial growth (compared with the rest of the agar surface)	The material is partially protected against fungal attack or generally not susceptible to such attack
2	Obvious growth and sporulation	The material is susceptible to fungal attack

Test result:

Evaluation	Observed growth on specimens
Rating 0	No growth

Note:

Test item is subcontracted on accreditation by CNAS L0823

**Test Photos:**

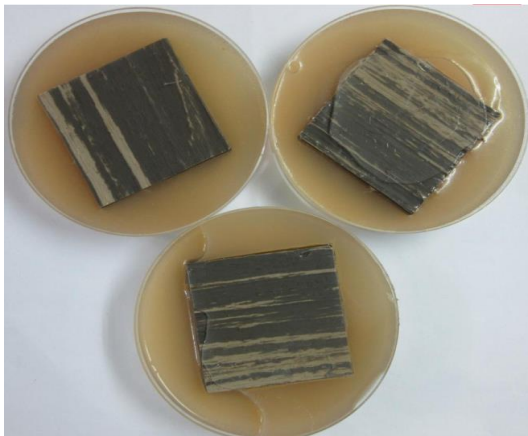


Fig 1. After 21 days

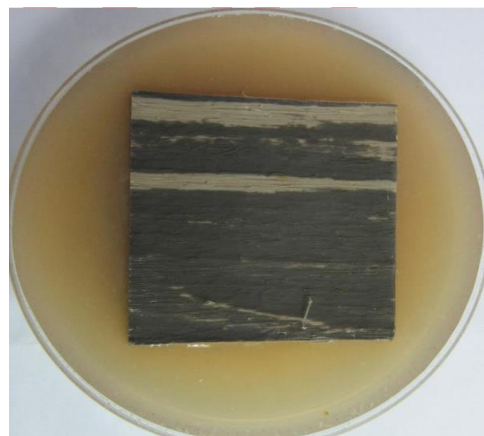


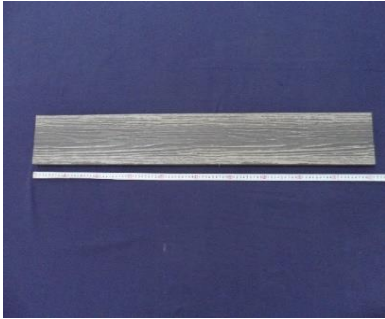
Fig 2. After 21 days

## Test Report

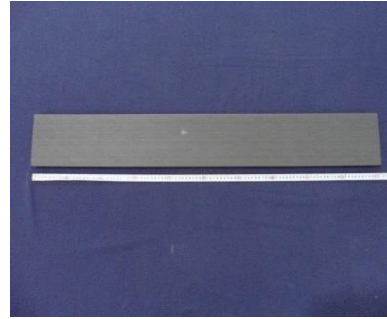
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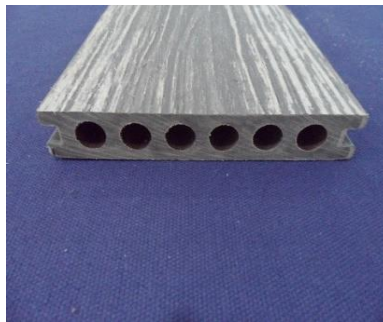
### Appendix A: Sample Received Photo



Front View(Test Surface)



Back View



Section View

### Revision:

NO.	Date	Changes	Author	Reviewer
190709012SHF-002	2019-09-06	First issue	Tod Qian	Torres Qi