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Date: Dec 01, 2017

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CUSTOMER NAME: JIANGSU QIANYU WPC DECKING TECHOLOGY CO.,LTD

ADDRESS: JIANGSU PROVINCE. YIXING CITY AND TOWN GATE FU XIANG

BRIDGE

Sample Name WPC DECKING **Product Specification** 140mm*24mm

JIANGSU QIANYU WPC DECKING TECHOLOGY CO.,LTD Manufacturer

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Date of Receipt : Nov 16, 2017 **Testing Start Date** : Nov 16, 2017 Testing End Date : Dec 01, 2017

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

(Unless otherwise stated the results shown in this test report refer only to

the sample(s) tested)

Signed for

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



Authorized signatory





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Original Sample Photo:





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1. Test Item: Mean Coefficient of Linear Thermal Expansion

Sample Description: Brown red solid board

Test Method: ASTM E831-14

Test Condition:

Specimen length: Parallel Sample 1: 9.8104mm,

Parallel Sample 2: 9.7729mm, Parallel Sample 3: 10.2745mm

Rate of temperature: 5°C/min

Load: 50mN

Flow rate (N₂): 50ml/min

Test temperature: -15°C~60°C

Test direction: Fringe direction

Test Result:

Test Item	Test Result
Mean Coefficient of Linear Thermal Expansion	38.3µm/(m·°C)

Note: Test specimens were cut from the sample

Original data:

Chaoiman	1	2	3	
Specimen	(TMA curve see Fig.1)	(TMA curve see Fig.2)	(TMA curve see Fig.3)	
Mean Coefficient of				
Linear Thermal Expansion	38.78µm/(m·°C)	37.24µm/(m·°C)	38.87µm/(m·°C)	



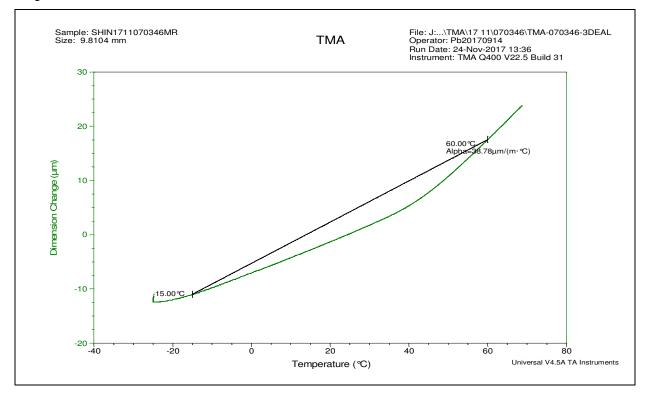


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Fig 1





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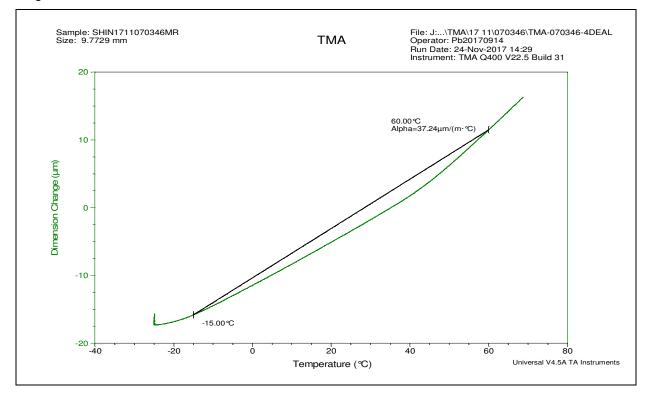


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Fig 2





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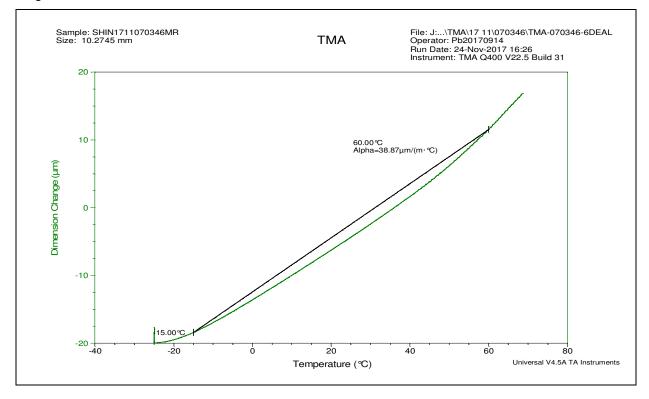


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Fig 3





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2. Test Item: Water Absorption

Sample Description: Brown red solid board

Test Method: ASTM D570-98(2010)^{£1} and client's requirement

Test Condition:

Specimen: 139.82 mm × 59.99 mm×23.10 mm

Drying condition: 50°C, 24h

Immersion condition: 23 °C, 24 h

Lab Environmental Condition: 23±2°C, 50±5%RH

Test Result:

Test Item	Test Result
Water Absorption	0.67 %

Note: Water absorption, %=(Mass after immersion-Mass after drying and before immersion)/Mass after drying and before immersion×100





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3. Test Item: Flexural Strength and Modulus of Elasticity

Sample Description: Brown red solid board Test Method: ASTM D6109-13 Method A

Test Condition:

Specimen: 550mm×140mm×23mm, 5pcs

Test span: 368mm

Test rate: 10.9mm/min

Testing surface: Front view

Lab Environmental condition: 23±2°C, 50±5%RH

Test Result:

Test item	Test result					
rost tom		Average value				
Flexural strength (MPa)	30.2	30.4	30.2	28.9	28.4	29.6
Modulus of elasticity (MPa)	4450	4530	4650	4360	4380	4470

4. Test Item: Impact Resistance

Sample Description: Brown red solid board

Test Method: ASTM D4495-16

Test Condition:

Specimen: 152mm×140mm×23mm, 20pcs

Failing weight: 10lb

Testing surface: Front view

Lab environmental condition: 23±2°C, 50±5%RH

Test Result:

	Test result						
Test item	Mean failure height (cm)	Mean failure energy (J)	Estimated standard deviation (cm)				
Impact resistance	86	38	3.8				



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5. Test Item: Slip Resistance

Sample Description: Brown red solid board

Test Method: AS 4586-2013 Appendix A Wet Pendulum Test

Test Condition:

Specimen: 200mm×140mm×23mm, 5pcs

Rubber: Slider 55

Test temperature: 20°C

Temperature correction: 0 Testing surface: Front view

Test direction: Parallel to the length direction

Test Result:

Test Item	BPN			Mean BPN	SRV	SRV _{CORR}	Mean SRV _{CORR}		
	55	54	53	54	53	54	53	53	
	55	55	55	55	55	55	55	55	
Slip resistance	56	56	55	56	55	56	55	55	53
	58	58	57	56	56	57	56	56	
	45	44	43	44	44	44	44	44	



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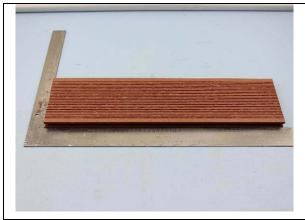


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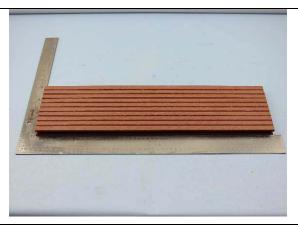
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Test Photo:



Flexural strength and modulus of elasticity (Front view)



Flexural strength and modulus of elasticity (Back view)



Impact resistance (Front view)



Impact resistance (Back view)



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Slip resistance (Front view)

Slip resistance (Back view)

6. Test Item: Formaldehyde Emission Content Sample Description: Brown red solid board

Test Method: With reference to GB 18580-2001 Section 6.2, analysis was performed by UV-Vis

Test Result:

<u>MDL</u> 001 Test Item(s) <u>Limit</u> Unit Formaldehyde emission 1.5 mg/L 0.2 0.3 Conclusion **PASS**

Note:

Product name	Test method	Limit	Using scope	Grade
Plywood veneer plywood vore-board	Desiccator	≤1.5mg/L	can be directly used indoors	E ₁
	method	≤5.0mg/L	surface must be decorated to be used indoors	E2

****** End of report******

