

## TEST REPORT

No. : XMCCM150600575

Date : Jun.17, 2015

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WUHU HAOXUAN WOOD PLASTIC COMPOSITE CO., LTD  
NO.12, FUSHAN RD, SANSHAN ECONOMIC DEVELOPMENT ZONE, WUHU CITY, ANHUI, CHINA

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

Sample Name : WPC DECKING  
SGS Ref. No. : GZIN1506022020MR  
Material : WOOD POWER, PE GRANULES, CHEMICAL ADITIVES  
Spec : HX145K22  
Manufacturer : WUHU HAOXUAN WOOD PLASTIC COMPOSITE CO., LTD  
Test required : Selected test(s) as requested by applicant  
Date of Receipt : Jun.01, 2015  
Test Period : Jun.01, 2015 to Jun.17, 2015  
Test result(s) : For further details, please refer to the following page(s)

\*\*\*\*\* To be continued\*\*\*\*\*

Signed for  
SGS-CSTC Standards Technical  
Services Co., Ltd. XM Branch Testing Center



Civi Huang  
Authorized Signatory

Note: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



SGS-CSTC Standards Technical Services Co., Ltd.  
Xiamen Branch Testing Center Materials Laboratory

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Sample description : See the photo

Lab environment condition : 23±2℃, 50±5%RH

Test item	Test method	Test condition	Test result
Flexural strength	ASTM D7031-11 Section 5.5 and ASTM D6109-13 method A	Specimen: 420×145×22mm Testing speed: 10.78mm/min Load span: 119mm Support span: 358mm	47.0 Mpa
Flexural modulus			7380 Mpa
Abrasion Resistance	ASTM D7031-11 Section 5.17 & ASTM D4060-14	Wheel: CS-17 Load: 500g/wheel (total 1000g) Cycles: 5000	Weight loss: 369.5mg
			Wear Index: 73.9 (1000·mg/cycles)
Specific Gravity	ASTM D7031-11 Section 5.14 & ASTM D792-13 Method B	Absolute alcohol, 23 ± 0.5 ℃	1.346
Water absorption	Refer to ASTM D7031- 11 Section 5.19 & ASTM D1037-12 Section 23 Method B and client's requirement	Specimen: 145 mm×100 mm Precondition: 20±1 ℃, 65 %RH to constant mass Immersion condition: 23±2 ℃, 24 h Drying condition: 103 ℃ to constant mass	0.74 %
Impact resistance	ASTM D7031-11 Section 5.12 & ASTM D4495-12	Specimen: 152×145×22mm Mass of the falling weight: 10±0.5lb	Mean failure height: 104.7 cm Mean failure energy: 4.59 J Estimated standard deviation: 2.2 cm
Modulus of rupture	Quality and testing specifications for terrace decking made from wood-polymer composite section 3.1	Specimen: 420×145×22mm Testing speed: 10.78mm/min Support span: 358mm	3196 N
Deflection at load of 500N			1.07 mm

Note:

- All the test specimens were cut from the sample.
- The result was for reference only.
- Water Absorption, % = (Mass after immersion-Mass before immersion)/Mass after immersion and after drying×100.
- The Abrasion Resistance, Specific Gravity and Water absorption were carried out by a SGS laboratory.

\*\*\*\*\* To be continued\*\*\*\*\*



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Specimen photographs:



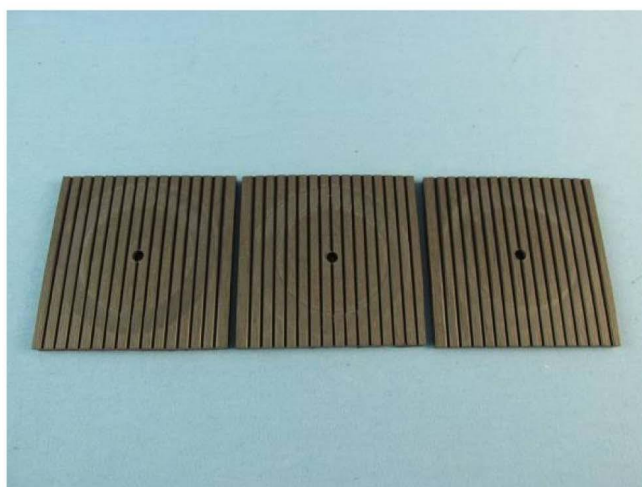
Product



Section of sample



Test sample



Samples for abrasion resistance

SGS authenticate the photos on original report only

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



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