

TEST REPORT

No. : GZIN1810052991CM-01

Date : Nov 27, 2018

Page: 1 of 13

CUSTOMER NAME:

ADDRESS:

Sample Name : WPC
Product Specification : Co-extruded round hole decking: 138mm×23mm
Co-extruded solid decking: 138mm×23mm
WPC Round hole decking: 140mm×25mm
WPC square hollow decking: 140mm×25mm
WPC Solid decking: 140mm×25mm WPC fence panel: 180mm×21mm
WPC wall panel: 148mm×21mm WPC post: 150mm×150mm
WPC handrail: 90mm×40mm

Other Information :



Logo:

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 : Oct 10, 2018
Testing Start Date : Oct 10, 2018
Testing End Date : Nov 27, 2018
Test result(s) : For further details, please refer to the following page(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 Co., Ltd. GZ Branch Testing
Center

Salon

Salon Liu
Authorized signatory



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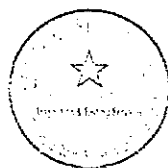
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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Slipperiness	EN 15534-1-2014 Section 6.4.2 & CEN/TS 15676-2007	Mean pendulum value (Dry): 60 Mean pendulum value (Wet): 39	/
2	Deflection Temperature under Load	EN 15534-1:2014 Section 9.1 & EN ISO 75-1:2013 & EN ISO 75-2:2013 Method A	89°C	/
3	Density	EN 15534-1-2014 Section 6.2 & EN ISO 1183-1:2012 Method A	1.22g/cm ³	/
4	Moisture Content	EN 15534-1-2014 Section 6.3 & EN 322:1993	1.04%	/
5	Moisture Resistance-Boiling Test	EN 15534-1-2014 Section 8.3.3	Mean value of water absorption: 1.49% Max individual values of water absorption: 1.52%	/
6	Withdrawal Capacity	EN 15534-1-2014 Section 7.6 & EN 13446:2002	Withdrawal parameter for panel: 54.5MPa	/
7	Swelling and Water Absorption	EN 15534-1:2014 Section 8.3.1	See test item 7	/
8	Thickness, Width and Length	EN 15534-1:2014 Section 6.6.2	See test item 8	/



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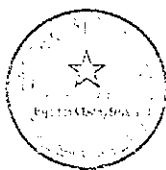
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No.	Test Item	Test Method	Result		Conclusion
9	Falling Mass Impact Resistance	EN 15534-1:2014 Section 7.1.2.1 & EN 477:1995	No crack, Max depth of residual indentation: 0.4mm		Pass
10	Flexural Properties	EN 15534-1:2014 Annex A	Flexural strength: 31.4MPa Flexural modulus: 2145Mpa		/
11	Resistance to Indentation	EN 15534-1:2014 Section 7.5	Brinell hardness: 57.7MPa Rec: 71.3%		/
12	Light Ageing Test- Xenon-arc Exposure	EN 15534-1:2014 Section 8.1.1 & EN ISO 4892-2:2013 Cycle 1 & EN 20105-A02:1994 & ISO 7724/1-1984 & ISO 7724/2-1984 & ISO 7724/3-1984	Grey scale	4-5	/
			ΔE^*_{ab}	1.1	

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



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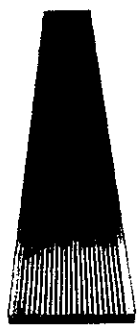
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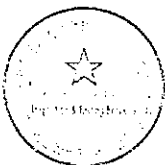
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Original Sample Photo:

	
<p>Test Sample</p>	<p>Photo Sample Only</p>
	
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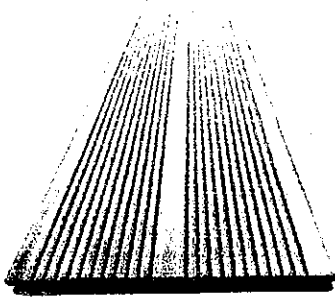
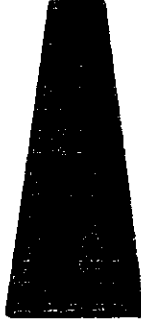


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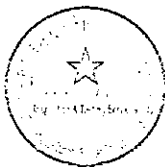
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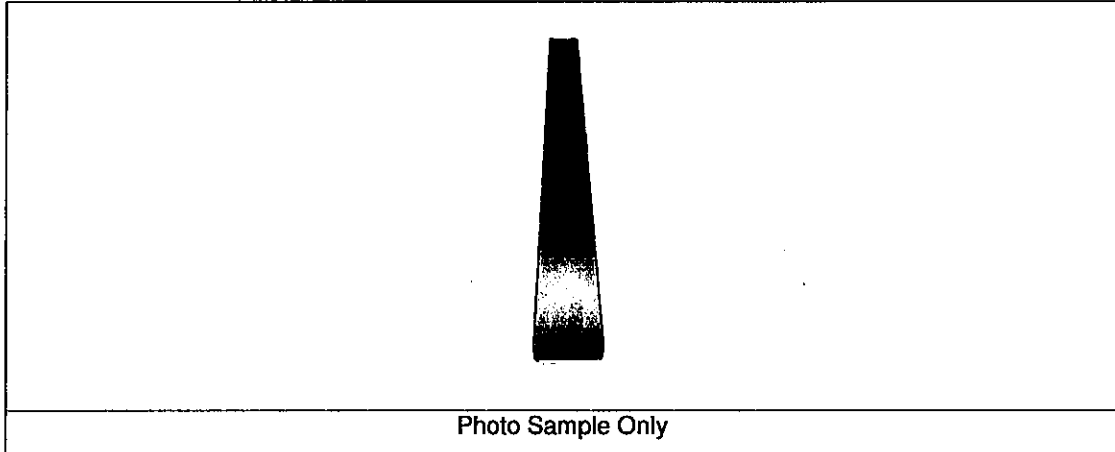
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Test Item 1: Slipperiness

Sample Description: See Photo

Test Method: EN 15534-1-2014 Section 6.4.2 & CEN/TS 15676-2007

Test Condition:

Specimens: 300mm×136.76mm×22.75mm

Test Result:

Mean pendulum value (Dry): 60

Mean pendulum value (Wet): 39

Test Item 2: Deflection Temperature under Load

Sample Description: See photo

Test Method: EN 15534-1:2014 Section 9.1 & EN ISO 75-1:2013 & EN ISO 75-2:2013 Method A

Test Condition:

Specimen: 80mm×9.85mm×4.44mm

Heat-transfer media: Silicone oil

T₁1.8

Rate of temperature:120°C/h

Span: 64mm

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

Test Result:

Test Item	Test Result
Deflection Temperature under Load	89°C



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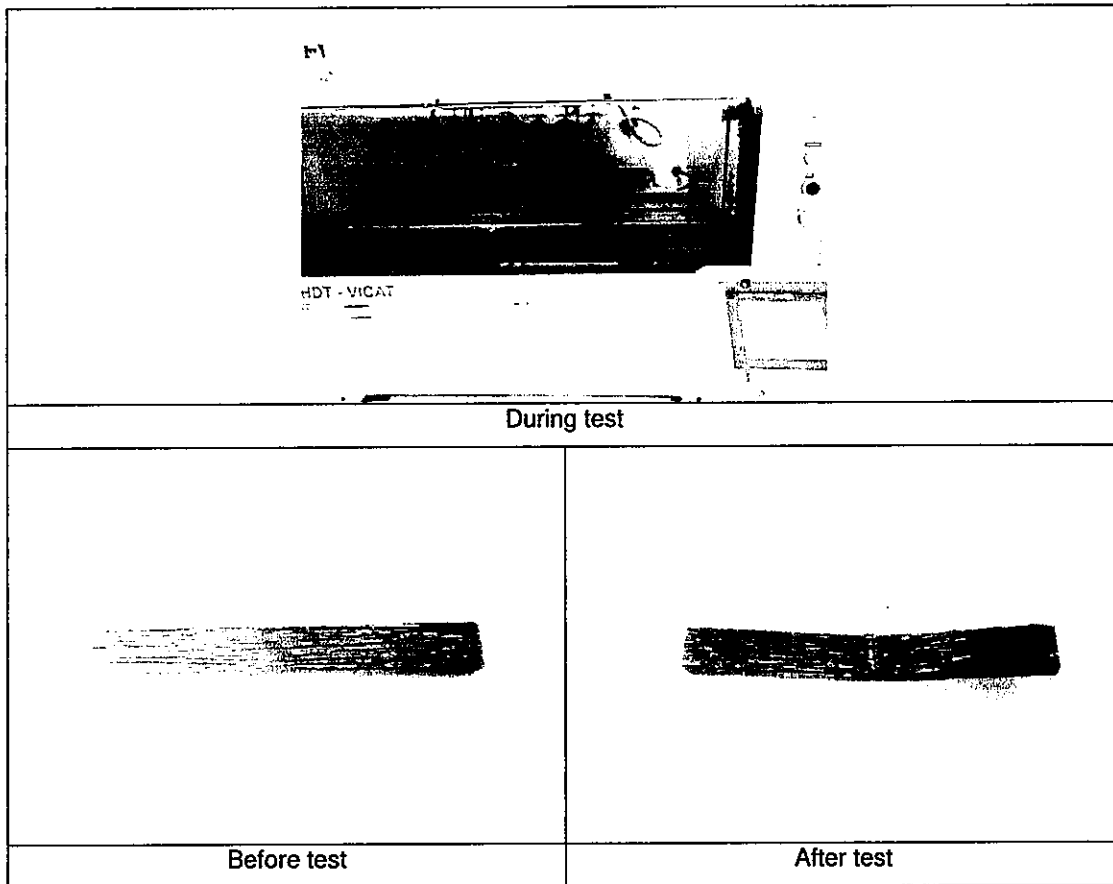
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Test Photo:



Test Item 3: Density

Sample Description: See photo

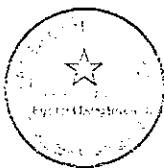
Test Method: EN 15534-1-2014 Section 6.2 & EN ISO 1183-1:2012 Method A

Test Condition:

Deionized water, 23 ± 2°C

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

Test Result: 1.22g/cm³



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Test Item 4: Moisture Content

Sample Description: See photo

Test Method: EN 15534-1-2014 Section 6.3 & EN 322:1993

Test Condition:

Specimen: 50mm×50mm×22.71mm

Condition: Drying in 103±2°C to constant mass

Test result: 1.04%

Test item 5: Moisture resistance--Boiling test

Sample Description: See photo

Test method: EN 15534-1-2014 Section 8.3.3

Test condition:

Condition: Immersing in boiling water for 5h and Immersing in cold water at (20 ± 2) °C during 15 min. Remove from water and stored at a temperature of (23 ± 2) °C and a relative humidity of (50 ± 10) % RH.

Test result:

Mean value of water absorption: 1.49%

Max individual values of water absorption: 1.52%

Test Item 6: Withdrawal Capacity

Sample Description: See photo

Test Method: EN 15534-1-2014 Section 7.6 & EN 13446:2002

Test Condition:

Specimen: 50mm×50mm×22.71mm

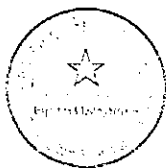
Testing speed: 1.5mm/min

Outside diameter of screw: 4.2 mm

Penetrate into depth: 22.71mm

Test Result:

Withdrawal parameter for panel: 54.5MPa



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Test Item 7: Swelling and water absorption

Sample Description: See photo

Test Method: EN 15534-1:2014 Section 8.3.1

Test Condition:

Specimen: 136.75mm×97.76mm×22.75mm

Immersion condition: Deionized water, PH: 7.0 ± 1, 20 ± 2 °C, 28 days

Test Result:

Test Item	Test Result
Swelling in Thickness	0.84%
Swelling in Length	0.05%
Swelling in Width	0.24%
Water Absorption	2.40%

Note:

- Swelling in Thickness, %=(Thickness after immersion- Thickness before immersion) / Thickness before immersion×100
- Water Absorption, %=(Mass after immersion- Mass before immersion)/ Mass before immersion×100

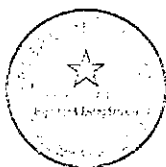
Test Item 8: Thickness, Width and Length

Sample Description: See photo

Test Method: EN 15534-1:2014 Section 6.6.2

Test result:

Test item	Length	Width	Thickness
Test result	Ave: 1222mm	Ave: 136.75mm	Ave: 22.75mm
	Max: 1222mm	Max: 136.90mm	Max: 22.85mm
	Min: 1222mm	Min: 136.60mm	Min: 22.65mm



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Test Item 9: Falling Mass Impact Resistance

Sample Description: See photo

Test Method: EN 15534-1:2014 Section 7.1.2.1 & EN 477:1995

Test Condition:

Specimen: 300×136.76×22.71mm

Weight of steel ball: 1000g

Diameter of steel ball: 50mm

Falling height: 700mm

Span: 200mm

Test result: No crack, Max depth of residual indentation: 0.4mm

Test Item 10: Flexural Properties

Sample Description: See photo

Test Method: EN 15534-1:2014 Section 7.3.2 and Annex A

Test Condition:

Specimen: 500mm×136.71mm×22.75mm

Testing speed: 16.9mm/min

Span: 456mm

Test result:

Flexural strength: 31.4MPa

Flexural modulus: 2145MPa

Test Item 11: Resistance to Indentation

Sample Description: See photo

Test Method: EN 15534-1:2014 Section 7.5

Test Condition:

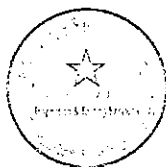
Specimen: 50mm×50mm×22.75mm

Indenter diameter: 10mm

Loading: Apply a preload of 20 N and increase the force to 2KN within 30±10s and maintain the force for 25s. Withdraw the indenter completely and let recover for 24 h

Test result:

Brinell hardness: 57.7MPa Rec: 71.3%



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Test Item 12: Light Ageing Test-Xenon-arc Exposure

Sample Description: Wood plastic composite panel

Test Method: EN 15534-1:2014 Section 8.1.1 & EN ISO 4892-2:2013 Cycle 1 & EN 20105-A02:1994
& ISO 7724/1-1984 & ISO 7724/2-1984 & ISO 7724/3-1984

Test Condition:

Exposure cycle:

EN ISO 4892-2:2013 Cycle 1

Irradiance: $(0.51 \pm 0.02) \text{W}/(\text{m}^2 \cdot \text{nm}) @ 340 \text{nm}$

102 min light at $(65 \pm 3)^\circ \text{C}$ BST, $(38 \pm 3)^\circ \text{C}$ CT, $(50 \pm 10)\% \text{RH}$

18 min light and water spray

Filter: Boro/Boro

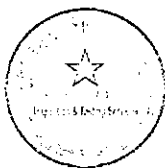
Exposure period: 300h

Test Result:

Sample	Grey scale	ΔL^*	Δa^*	Δb^*	ΔE^*_{ab}
A	4-5	-1.12	0.04	0.14	1.1

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. ΔL^* , Δa^* , Δb^* , ΔE^*_{ab} was measured by sphere spectrophotometer under D65 standard light source and with 10° observer. The results include specular reflection condition, 25mm aperture.



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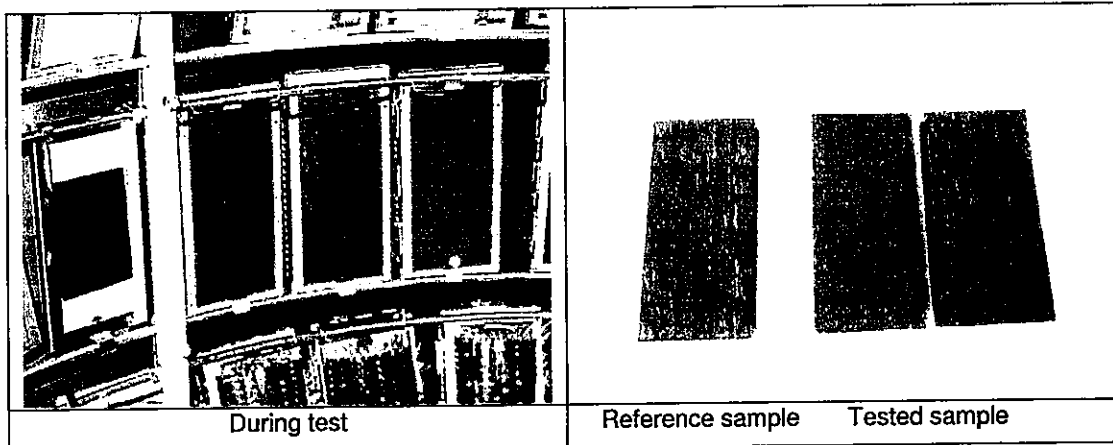
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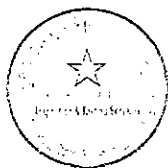
Test Photo:



Note:

1. All test specimens were cut from the samples except for that of test item 8
2. This test report supersedes the test report GZIN1810052991CM date: 2018-11-22, the original test reports (paper and electronic) are void.

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



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