

# Anhui Sentai WPC TEC Flooring Co., Ltd.

# **TEST REPORT**

### **SCOPE OF WORK**

SPC Flooring/rigid vinyl plank

### **REPORT NUMBER**

190801008SHF-004

### **TEST DATE(S)**

2019-08-01 - 2019-09-03

### **ISSUE DATE**

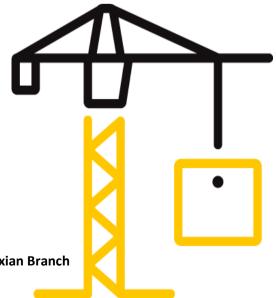
2019-09-03

### **PAGES**

8

### **DOCUMENT CONTROL NUMBER**

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Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch



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# **Test Report**

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# **Test Report**

Issue Date: 2019-09-03 Intertek Report No. 190801008SHF-004

Applicant: Anhui Sentai WPC TEC Flooring Co., Ltd.

Address: No.19, Guohua Rd., Guangde TED Zone, Guangde, Anhui, China

Attn: Jerry Liu

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

### **Product Information**

Product Name	SPC	Flooring/rigid vinyl plank	Brand /	
Sample Description		Good Condition	Sample Amount	56 pieces
		good condition	Received Date	2019-08-14
Sample ID		Model	Specification	
S190801008SHF.014		SPC0335, 3.8/0.3mm	1220*181*3.8mm	

### **Test Methods And Standards**

	Test Standard	ISO 16000-3:2011; ISO 16000-6:2011; ISO 16000-9:2006; ISO 16000-11:2006
	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 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: `Flora Fan

Title: Reviewer

Milo Liu

1) W

Project Engineer



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### Test Items, Method and Results:

Test Item: Volatile organic compounds content analysis

products and furnishing - Emission test chamber method;

Test Method: With reference to

ISO 16000-3:2011 Indoor air - Part 3: Determination of formaldehyde and other carbonyl compounds in indoor air and test chamber air - Active sampling method;

ISO 16000-6:2011 Indoor air - Part 6: Determination of volatile organic compounds in indoor and test chamber air by active sampling on Tenax TA® sorbent, thermal desorption and gas chromatography using MS or MS/FID; ISO 16000-9:2006 Indoor air - Part 9: Determination of the emission of volatile organic compounds from building

ISO 16000-11:2006 Indoor air - Part 11: Determination of the emission of volatile organic compounds from building products and furnishing - Sampling, storage of samples and preparation of test specimens.

### Test Procedure:

The sample was tested in the emission test chamber. After 7 days, chamber air samples were collected. Samples analyzed for individual VOCs and TVOC were collected on sorbent tubes Tenax TA, and were detected by Automatic Thermal Desorption-Gas Chromatography/Mass Spectrometric (ATD-GC/MS). Samples analyzed for aldehydes were collected on DNPH cartridge, and were detected by High Performance Liquid Chromatography-Diode-Array Detector (HPLC-DAD).

### Test condition:

Chamber type: 1.0 m<sup>3</sup> stainless steel chamber

Climatic conditions: 23°C, 50% R.H

Air exchange: 0.5 h<sup>-1</sup> Loading factor: 0.4 m<sup>2</sup>/m<sup>3</sup>

Sampling: Tenax TA & DNPH cartridge



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Test result:

1. Volatile Organic Compounds (VOC) Emission

The emission of the substances was classified according to a scale with 4 classes of Exposure Concentrations ranging from  $A^+$  to C.  $A^+$  indicating a very low emission level and C is a high level emission. The results of the tested sample after 7 days are shown in Table 1.

Predicted Limit values of emission classes (1) Chamber concentrati-Emission concentration (μ  $(\mu g/m^3)$ Testing compound CAS No. on classes  $g/m^3$ )  $(\mu g/m^3)^{(2)}$  $A^{+}$ Α В C ND (4) < 5 <sup>(5)</sup> Formaldehyde# (3) 50-00-0 <10 <60 <120 >120  $A^{+}$ ND (4) < 5 <sup>(5)</sup> Acetaldehyde# (3) 75-07-0 <200 <300 <400 >400  $A^{\dagger}$ Toluene <450 ND (4) < 2 (5) 108-88-3 <300 <600 >600  $A^{\dagger}$ Tetrachloroethyl-ND (4) < 2 (5) 127-18-4 <250 <350 <500 >500  $A^{+}$ ene ND (4) < 2 (5) Xylene 1330-20-7 <200 <300 <400 >400  $A^{+}$ 1,2,4-ND (4) < 2 (5)  $A^{+}$ 95-63-6 <1000 <1500 <2000 >2000 trimethylbenzene ND (4) < 2 (5)  $A^{+}$ 1,4-dichlorobenzene 106-46-7 <60 <90 <120 >120 ND (4) < 2 <sup>(5)</sup>  $A^{\dagger}$ Ethylbenzene 100-41-4 <750 <1000 >1500 <1500 2-butoxyethanol 111-76-2 <1000 <1500 <2000 >2000 ND (4) < 2 (5)  $A^{+}$ Styrene 100-42-5 <250 <350 <500 >500 ND (4) < 2 (5)  $A^{+}$ 

Table 1 Results of VOC Emission of target chemicals after 7 days

### Note:

TVOC\* (3)

(1) Limited values were specified by French VOC labelling regulation.

<1000

(2) Predicted concentration was calculated from the emission rate obtained from chamber concentration by model room (volume 30 m<sup>3</sup>, floor surface area 12 m<sup>2</sup>, air exchange rate 0.5 h<sup>-1</sup>).

<2000

>2000

ND (4)

< 20 (5)

 $A^{\dagger}$ 

(3) # = indicates aldehydes identified and quantified by DNPH derivatization and HPLC/DAD analysis.

<1500

- \* = TVOC means sum of the concentrations of all identified and unidentified VOCs between and including n-hexane through n-Hexadecane (i.e.,  $C_6$ - $C_{16}$ ) as measured by the GC/MS TIC method and expressed as a toluene equivalent value.
- (4) Detection limit of chamber concentration:

for # aldehydes =  $5 \mu g/m^3$ ; for other individual compound =  $2 \mu g/m^3$ ; for TVOC =  $20 \mu g/m^3$  ND = Not detected

(5) Reporting limit of predicted concentration:

for # aldehydes =  $5 \mu g/m^3$ ; for other individual compound =  $2 \mu g/m^3$ ; for TVOC =  $20 \mu g/m^3$ 



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Test photo:







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**APPENDIX: French VOC emission class labelling** 



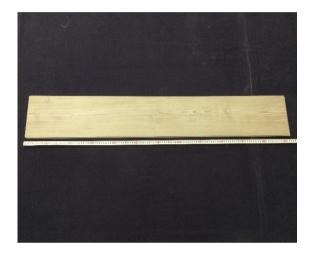
\* Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions)

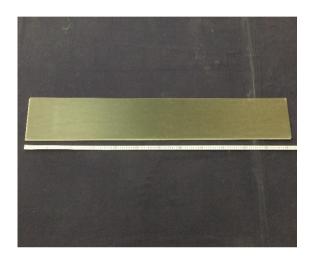
Above labelling is for reference only



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### **Appendix A: Sample Received Photo**





### **Revision:**

NO.	Date	Changes	Author	Reviewer
190801008SHF-004	2019-09-03	First issue	Milo Liu	Flora Fan