

Anhui Sentai WPC TEC Flooring Co., Ltd.

TEST REPORT

SCOPE OF WORK

Heterogeneous PVC floor covering (type: SPC Flooring/rigid vinyl plank)

REPORT NUMBER

190801008SHF-005

TEST DATE(S)

2019-08-01 - 2019-09-10

ISSUE DATE

2019-09-10

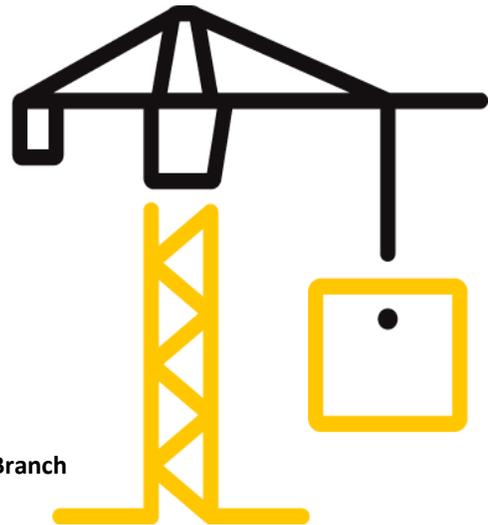
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DOCUMENT CONTROL NUMBER

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

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Test Report

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Test Report

Issue Date: 2019-09-10 Intertek Report No. 190801008SHF-005
 Applicant: Anhui Sentai WPC TEC Flooring Co., Ltd.
 Address: No.19, Guohua Rd., Guangde TED Zone, Guangde, Anhui, China
 Attn: Jerry Liu

Sample information

Product:	Heterogeneous PVC floor covering (type: SPC Flooring/rigid vinyl plank)
Trade Mark:	/
Model and/or type reference:	SPC0335, 1220mm×181mm×3.8mm/0.3mm
Material:	Multi-layer composite (UV layer/wear layer/print film/bottom layer)
Classification of installation and use:	Installation way: loose way, click system The products are intended for use as floor coverings in a building
Manufacturer:	
Sample ID:	S190801008SHF.015~017
Date of receipt of test item:	2019-08-01
Date (s) of performance of tests:	2019-08-01~2019-09-10

Testing information

Standard:	EN 14041:2004/AC:2006
Rating(s):	Reaction to fire Class B _{fl} -s1, Formaldehyde emission Class E1
Possible Test Case Verdicts	
Test Case does not apply to the Test object:	N/A
Test object does meet the requirement:	P (Pass)
Test object does not meet the requirement:	F (Fail)
The submitted samples were tested in accordance with specified standards, and listed the result accordingly, refer to text for detail.	

Report Authorized


 Name: Sally Xie
 Title: Reviewer




 Name: Tod Qian
 Title: Project Engineer

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Test Items, Method and Results:

EN 14041:2004/AC:2006			
Resilient, textile and laminate floor coverings-Essential Characteristics			
Clause	Requirement - Test	Result - Remark	Verdict
4	Requirement		
4.1	<p>Reaction to fire</p> <p>The floor covering shall be tested and classified according to the requirements of EN 13501-1 and the resulting class and subclass (as appropriate to the class itself) shall be declared.</p>	<p>1220mm×181mm×3.8mm/0.3mm</p> <p>Reaction to fire class B_{fl}-s1</p> <p>Refer to test report in Appendix B (Issue by NB No. 1023)</p>	P
4.3	<p>Formaldehyde emission</p> <p>When formaldehyde-containing materials have been added to the product as a part of the production process, the product shall be tested and classified into one of two classes: E1 or E2.</p>	<p>1220mm×181mm×3.8mm/0.3mm</p> <p>Class E1</p> <p>Refer to test report in Appendix B (Issue by NB No. 1023)</p>	P
4.5	<p>Slip resistance</p> <p>If a claim for slip resistance is made, the floor covering intended to be used in dry and non-contaminated conditions shall have a dynamic coefficient of friction of ≥ 0.30 when tested ex-factory under dry conditions in accordance with EN 13893 and shall be declared as technical class DS.</p>	<p>Class DS</p> <p>1220mm×181mm×3.8mm/0.3mm</p> <p>Dynamic coefficient of friction: 0.37</p>	P
5	Evaluation of conformity		
5.1	<p>General</p> <p>The conformity of floor coverings with the requirements of this standard (including classes) shall be demonstrated by: Clause 5.2 and 5.3</p>	Refer to clause 5.2 and 5.3	P
5.2	<p>Initial type testing or assessment</p> <p>Shall be performed to demonstrate conformity with this standard.</p>	Refer to clause 4	P

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5.3	<p>Factory production control (FPC) The manufacturer shall establish, document and maintain an FPC system to ensure that the products placed on the market conform to the stated performance requirements.</p>	<p>The manufacture has established a Quality management system according to ISO 9001. See Appendix A</p>	P
6	<p>Marking and labeling Product which conform to the requirements of this document shall be clearly and indelibly marked by the manufacturer either on their package or on an adhesive label with following information: a) the number and the year of this European Standard b) the manufacturer's or supplier's identification c) the product name and batch number</p>	<p>See Appendix C 'Copy of marking plate'</p>	P

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Appendix A: ISO 9001 Certificate



Certificate of Registration

This is to certify that

Anhui Sentai WPC Group Share Co., Ltd

Unified social credit code: 91341822796423104J

Registered address: Guohua Road, Economic Technology Development District, Guangde County, Xuancheng City, Anhui Province, P.R.China

Audited address: Guohua Road, Economic Technology Development District, Guangde County, Xuancheng City, Anhui Province, P.R.China

Has been assessed as conforming to meet the requirements of

GB/T19001-2016 / ISO9001:2015

for the scope of activities

Production and sale of wood-plastic composite product

Certificate No: **ZZW18Q16078R0M**

Issue Date: **14 August 2018** Valid until: **13 August 2021**

Attention: Subject to adherence to the agreed ongoing audit programme, successful endorsement of certification following each audit and compliance with CI Regulations

Certification Range of product service excludes the relevant administrative verification that are not acquired the valid national rule, certification permission, 3C certification

Signed for and on behalf of

A handwritten signature in black ink, appearing to read "Guohua", is written over a circular stamp. The stamp contains the text "SHANGHAI ZZW CERTIFICATION CO., LTD." and "中致威认证".

General Manager



Note: According to the certification requirements, the interval between the annual surveillance audit and the last spot audit cannot exceed twelve months.

Shanghai Zhongzhiwei Certification Co., Ltd. Tel: +86 21 3952 8556 Fax: +86 21 6426 7178
Add: Room 1118, No. 29, Lane 26, Hexuan Road, Jiading District, Shanghai City, P.R.China
The certificate information is validity on: Our company Web: www.zzwz.com; CNCA official web: www.cnca.gov.cn

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Appendix B: NB Report

Reference No. 75 35 01775
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INSTITUTE FOR TESTING AND CERTIFICATION, INC.
třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic

TEST REPORT

Reference No. 75 35 01775/ 2019

Applicant: Anhui Sentai WPC TEC Flooring Co., Ltd.
No.19, Guohua Rd., Guangde TED Zone,
Guangde, Anhui, China

Product: Heterogeneous PVC flooring covering (type:SPC
plank flooring/rigid vinyl plank, specification:
1220 mm x 181 mm x 3.8 mm/0.3 mm

Manufacturer: Anhui Sentai WPC TEC Flooring Co., Ltd.
No.19, Guohua Rd., Guangde TED Zone, Guangde,
Anhui, China

Elaborated by: Milan Kovář

Issued on: 5th September 2019



Jiří Heš

Representative of Notified Body No. 1023

Test Report

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Appendix B: NB Report**INSTITUTE FOR TESTING AND CERTIFICATION**Notified Body 1023
763 02 Zlín, Czech Republic

Notified Body No. 1023 * State Authorized Body No. 224 * Product and Management Systems Certification Bodies * Accredited Laboratory

Reference No. 75 35 01775
Page 2 of 6**1. Introduction**

This report was elaborated on the basis of the application No. 753501753, from 02/08/2019 and tests results carried out by the notified testing laboratory in accordance with the procedure mentioned in the article 1.4 of the Annex V to the Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9 March 2011, as amended, laying down harmonised conditions for the marketing of construction products („CPR“).

2. Assessment and verification of constancy of performance according to Regulation (EU) No 305/2011 of the European Parliament and of the Council, as amended

Floor coverings as construction products are assessed on the basis of relevant clauses of the Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9th March 2011 laying down harmonised conditions for marketing of construction products and repealing Council Directive 89/106/EEC as amended (called „CPR“)

2.1 System of assessment and verification of constancy of performance (AVCP)

The submitted product is assessed pursuant to system of AVCP 3 of the CPR (Annex V).

The type testing was carried out according to Annex ZA of the standard ČSN EN 14041 (EN 14041:2004/AC:2006).

2.2 Indicators specifying basic requirements for construction works

The initial type testing (testing) was carried out by the notified body (the notified testing laboratory) in the following range of relevant properties according to Table ZA.4 (of the ČSN EN 14041):

- Reaction to fire
 - ignitability – surface exposure according to ČSN EN ISO 11925-2 (exposure time: 15s)
 - burning behaviour using a radiant heat source according to ČSN EN ISO 9239-1 /test samples were not glued to the standard substrate – loose laying/
 - classification according to ČSN EN 13501-1+A1
- Formaldehyde emission according to ČSN EN 717-1

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2.3 Product specification

PVC heterogeneous floor covering tiles.

Composition :

- Total thickness: 3.8 mm/0.3 mm – UV layer - epoxy acrylic resin (0.04 mm), wear layer (0.30 mm – PVC), print film (0.07 mm), bottom layer-SPC (3.39+ mm – PVC+calcium carbonate)

Laying way: loose way, click system.

2.4 Sampling place and number of samples taken

The test samples were sent by the manufacturer. The number of the test samples sent was as follows:

- Heterogeneous PVC floor covering tiles, type: SPC plank flooring/rigid vinyl plank (1220 x 181 x 3.8/0.3) mm in the amount of 10 pcs + 3 pcs into PE-foil

The test samples were registered under the registration numbers 75 35 01775/1 on 19/08/2019.

Photo of the test sample:



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Reference No. 75 35 01775
Page 4 of 6**2.5 Place and date of testing**

- Institut pro testování a certifikaci (ITC), a.s., NB 1023, accredited laboratory No. 1004 Zlín (September 2019)
- Institut pro testování a certifikaci (ITC), a.s. CSI division - Centrum stavebního inženýrství Prague, Fire Technical Laboratory, Accredited test laboratory No.1007.4 (September 2019)
- Výzkumný a vývojový ústav dřevařský, Praha, s.p., NB 1393, accredited laboratory No. 1031, Prague (August 2019)

2.6 Test results**2.6.1 Ignitability results**

Table 1 – Ignitability test results

Characteristic	Surface exposure test – lengthwise direction (characteristic for individual test specimens)	Surface exposure test – crosswise direction (characteristic for individual test specimens)
Ignition of the test specimen Yes/No	No, No, No, No, No	No, No, No, No, No
Flame reaching of a mark in distance of 150 mm Yes/No	No, No, No, No, No	No, No, No, No, No
Burning time to reach 150 mm (s)	-, -, -, -, -	-, -, -, -, -
Ignition of the filter paper	No, No, No, No, No	No, No, No, No, No

2.6.2 Results of burning behaviour using a radiant heat source

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Table 2 - Results of burning behaviour using a radiant heat source

Characteristic	Measuring unit	Crosswise direction measurement	Lengthwise direction measurement (mean value)
Maximum distance of flame spread	mm	190	216.7
Critical heat flux (CHF)	kW/m ²	9.3	8.8
Distance of flame spread at 10th min.	mm	190	216.7
HF-10	kW/m ²	9.3	8.8
Distance of flame spread at 20th min.	mm	(-)	(-)
HF-20	kW/m ²	(-)	(-)
Distance of flame spread at 30th min.	mm	(-)	(-)
HF-30	kW/m ²	(-)	(-)
Maximum light attenuation	%	51.2	57.9
Integrated smoke value	% x min	303.7	321.6

2.6.3 Results of the reaction to fire classification

Table 3 – Reaction to fire classification

Product	Reaction to fire class	Additional class for smoke production	Final class
Heterogeneous PVC floor covering tiles, type: SPC plank flooring/rigid vinyl plank	B _{fl}	s1	B_{fl} – s1

2.6.4 Formaldehyde emission result

Table 4 – Results of the formaldehyde emission

Product	Measuring unit	Test result (class)
Heterogeneous PVC floor covering tiles, type: SPC plank flooring/rigid vinyl plank	mg.m ⁻³	0.005 (E1)

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Notified Body NB 1023 has carried out the testing in accordance with the paragraph 1.4 of Annex V to the Regulation (EU) No 305/2011, as amended for the product specified in the Art. 2.3 of this Report **and concluded that**

all requirements of this paragraph of the above Regulation and the relevant harmonized standard have been met and this report may be issued as a basis for affixing CE marking to these products.

This Report is applicable only to products identically marked and named, such as those which were the subject to testing, provided that the products characteristics have not been changed or no significant changes in their production (materials, technology, manufacturing equipment, etc.) have been done.

3. List of documents used to elaborate the Test Report

- Application No. 753501775 for assessment of CE-marked construction products
- ČSN EN 14041 (91 7883): Pružné textilní a laminátové podlahové krytiny – Podstatné vlastnosti (Resilient, textile and laminate floor coverings – Essential characteristics)
- Test Report of accredited laboratory, reference No. 753501775-02, elaborated by ITC a.s., accredited laboratory No. 1004, in Zlín, on 03/09/2019
- Test Report, referenceNo. 19/440/P382, elaborated by Institut pro testování a certifikaci (ITC), a.s. CSI division - Centrum stavebního inženýrství, Fire Technical Laboratory, Prague, on 05/09/2019
- Test Report, reference No. MVZ-A-2019-001089, elaborated by Výzkumný a vývojový ústav dřevařský, Praha, s.p., accredited testing laboratory No. 1031, Prague, on 29/08/2019
- Classification Report using Results of Reaction to Fire No. 75 35 01775K/2019, elaborated by ITC, a.s. Zlín, on 05/09/2019

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Appendix C: Copy of Marking Plate


Anhui Sentai WPC TEC Flooring Co., Ltd. 19
EN 14041:2004/AC:2006 Heterogeneous PVC floor covering (type: SPC Flooring/rigid vinyl plank) Reaction to fire Class B _{fl} -s1 Slipperiness DS Formaldehyde E1

Note:

1. If the CE marking is reduced or enlarged the proportions given in the above graduated drawing must be respected.
2. The various components of the CE marking must have substantially the same vertical dimension, which may not be less than 5 mm.
3. CE marking and label shall be affixed visibly, legibly and indelibly.

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Appendix D: Sample Received Photo



Front View(Test Face)



Back View

Revision:

NO.	Date	Changes	Author	Reviewer
190801008SHF-005	2019-09-10	First issue	Tod Qian	Sally Xie