

FLOORCO TRADING LTD

TEST REPORT

SCOPE OF WORK
LAMINATE FLOORING

REPORT NUMBER
231010003SHF-001

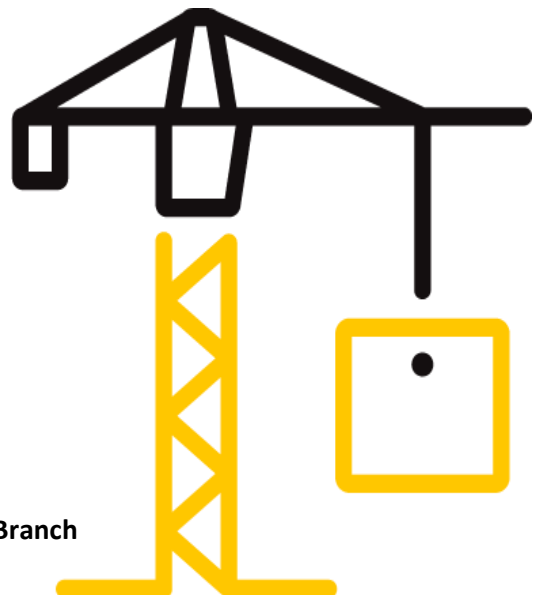
TEST DATE(S)
2023-10-10 - 2023-10-24

ISSUE DATE
2023-10-24

PAGES
7

DOCUMENT CONTROL NUMBER
LFT-APAC-SHF-OP-10k(September 1, 2022)
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Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch



Test Report

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Test Report

Issue Date: 2023-10-24 Intertek Report No. 231010003SHF-001
 Applicant: FLOORCO TRADING LTD
 Address: 118 CARBINE ROAD , MT WELLINGTON
 Attn: TERRY
 Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	LAMINATE FLOORING	Brand	/
Sample Description	Good Condition	Sample Amount	12 pcs
		Received Date	2023-10-08
Sample ID	Model	Specification	
S231010003SHF.001	FLOORCO LAMINATE FLOORING	/	

Test Methods And Standards

Test Standard	EN 13329:2016+A2:2021 Annex E, ISO 16000-3:2022, ISO 16000-6:2021, 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 does not involve sampling. The report only reflects conformity of the tested items of the samples provided by the testing applicant. Representativeness and authenticity of the submitted samples are responsibilities of the testing applicant.

Report Authorized



 Name: Flora Fan Roger Chen
 Title: Reviewer Project Engineer

Test Report

Issue Date: 2023-10-24

Intertek Report No. 231010003SHF-001

Test Items, Method and Results:

Test Item: Abrasion resistance

Test Method: EN 13329:2016+A2:2021 Annex E

Conditioning: Condition the test specimens at (23±2)°C and (50±5)% relative humidity for at least 24h

Test Condition:

Rotation frequency: 60 r/min

Abrasive material: Taber S-42 abrasive paper strips

Load on each wheel: 500 g

Examine the test specimen for abrasion after each 100 r.

Renew the abrasive papers after every 200 r.

Test Result:

Parameter	Specimen 1	Specimen 2	Specimen 3
Initial wear point (IP) value, r	2200	2400	2100
Average IP value, r	2200		

Note:

1. The initial wear point (IP) is that point at which the first clearly recognizable wear-through of the print appears and the sub-layer becomes exposed in six out of 8 octants. The initial wear point is reached when there are areas of at least 1.00 mm² wear-through in five octants and an area of 1.00 mm² wear-through becomes visible in a sixth octant.

2. Abbreviation "r" = revolutions/cycles



Test Report

Issue Date: 2023-10-24

Intertek Report No. 231010003SHF-001

Test Items, Method and Results :

Test Item: Volatile organic compounds content analysis

Test Method: With reference to

ISO 16000-3:2022 Indoor air - Part 3: Determination of formaldehyde and other carbonyl compounds in indoor and test chamber air - Active sampling method;

ISO 16000-6:2021 Indoor air - Part 6: Determination of organic compounds(VVOC, VOC, SVOC) in indoor and test chamber air by active sampling on sorbent tubes, 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 products and furnishing - Emission test chamber method;

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 1day, 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 (HPLC).

Test condition:

Test chamber: 0.06 m³

Loading factor: 1 m²/m³

Supply air temper: 23°C±1°C

Supply air humidity: 50%±5% R.H.

Air exchange rate: 1.0 h⁻¹

Sampling: Tenax TA & DNPH cartridge

Table 1 1day Chamber concentration and Emission Factor of all Target VOCs and TVOC

No.	Compound Name	CAS Number	Chamber Concentration (µg/m ³)	Emission Factor (µg/m ² ·h)
1	Individual compound	/	ND	< 2.0
2	Formaldehyde [#]	50-00-0	36.5	36.5
3	Total of all VOC (TVOC)**	/	ND	< 20.0

Remark:

- # = indicates compound identified and quantified by DNPH derivitization and HPLC/DAD analysis.
- Detection limit of Formaldehyde = 5 µg/m³
- Detection limit of other individual compound = 2 µg/m³
- Detection limit of TVOC = 20 µg/m³
- ** = Denotes quantified using the Relative Response Factor to toluene for the compound.
- ND = Not detected (less than the detection limit)



Test Report

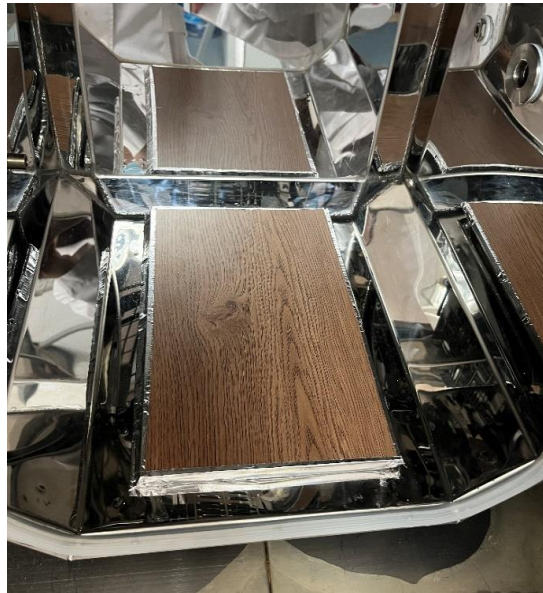
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7. TVOC means sum of the concentrations of all identified and unidentified VOCs elute between and including n-pentane through n-heptadecane (i.e., C₆-C₁₆) as measured by the GC/MS TIC method and expressed as a toluene equivalent value.

8. Test location: Central Chemical Lab of Intertek Testing Services Ltd., Wuxi
Address: No. 8, Fubei Road, Xishan Economic Development Zone, Wuxi, China

Test Photo:



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Appendix A: Sample Received Photo



Revision:

NO.	Date	Changes
231010003SHF-001	2023-10-24	First issue