

Lions Floor

TEST REPORT

SCOPE OF WORK

SPC floors

REPORT NUMBER

240725011SHF-010

TEST DATE(S)

2024-07-25 - 2024-08-15

ORIGINAL ISSUE DATE

2024-08-22

PAGES

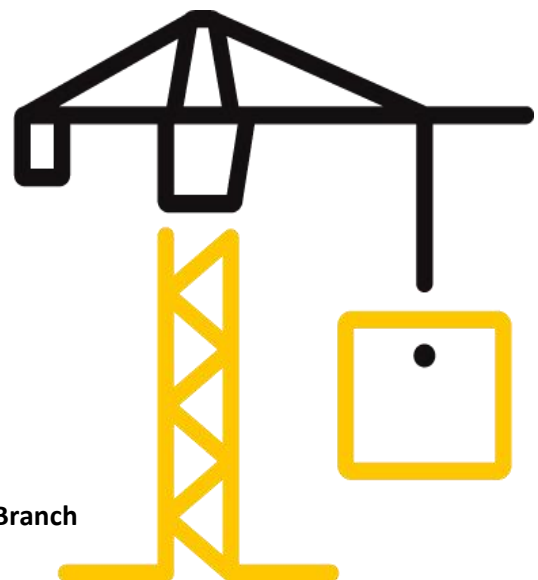
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DOCUMENT CONTROL NUMBER

LFT-APAC-SHF-OP-10k(February 1, 2024)

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Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch



Test Report

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Test Report

Original Issue Date: 2024-08-22 Intertek Report No. 240725011SHF-010
 Applicant: Lions Floor
 Address: 7300 somerset blvd, paramount, CA 90723
 Attn: Jerry Guo
 Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Model	Specification
SPC floors	Lone Star Spirit	1830*180*4.5+1.5mm
Sample ID	Sample Amount	Sample Received Date
S240725011SHF.016	72 pieces	2024-05-21
Sample Description		
1830*180*4.5+1.5mm		

Test Methods And Standards

Test Standard	ASTM E648-19a ^{e1}
Specification Standard	/
Test Conclusion	The samples were tested according to the above standards, and the results are shown in the following page.

Note:

- 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.
- ASTM E648-19a^{e1} is not current standard, test was performed as per client's requirement.

Report Authorized

Sally Xie *Daniel Zhang*
 Name: Sally Xie Name: Daniel Zhang
 Title: Reviewer Title: Project Engineer



Test Report

Original Issue Date: 2024-08-22

Intertek Report No. 240725011SHF-010

Test Items, Method and Results:

Test Item: Critical radiant flux
Test Method: ASTM E648-19a^{e1}
Conditioning: At temperature of $(21 \pm 3)^{\circ}\text{C}$ and relative humidity of $(50 \pm 5)\%$ for 48h

1 Test Overview

This procedure provides a way of measuring **Critical Radiant Flux** (the level of incident radiant heat energy on a floor covering system at the most distant flame-out point, reported as w/cm^2) of horizontally mounted floor-covering systems exposed to a flaming ignition source while being exposed to radiant heat energy from a panel with approximately a 30° angle from the horizontal.

2 Test Procedure

At least three specimens shall be tested. Following the ASTM E648-19a^{e1} calibration procedures the first specimen was loaded into the test chamber. After a 5 min pre-heat time, the pilot flame was placed into contact with the specimen at the 0 mm mark. The pilot flame is to remain in contact with the specimen for 5 min, then removed. If the specimen does not propagate flame during the 5 min pilot flame contact, then the test is terminated. For specimens that do propagate flame, the test is continued until the flame goes out. The distance to the farthest flame-out point is noted, which is then used to determine the **Critical Radiant Flux**, based on a radiant heat energy flux profile curve of the apparatus obtained during calibration.



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Intertek Report No. 240725011SHF-010

Test Items, Method and Results:

3 Test Result

Specimen	1	2	3
Maximum Distance (mm)	90	95	90
Time to Maximum Distance (min:sec)	6:12	6:23	6:18
Time to All Flame Out (min:sec)	10:01	10:01	10:01
Critical Radiant Flux (W/cm ²)	>1.10	>1.10	>1.10
Average Critical Radiant Flux (W/cm ²)	>1.10		
Standard Deviation (W/cm ²)	N/A		
Coefficient of Variation (%)	N/A		

Observation

Specimen	Smoking (min:sec)	Blistering (min:sec)	Discolored (min:sec)	Ignition (min:sec)
1	2:53	2:44	3:43	5:02
2	3:11	3:03	3:49	5:03
3	3:24	2:30	4:00	5:03



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Intertek Report No. 240725011SHF-010

Test Items, Method and Results:

4 Test photos



Before test



After test



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Intertek Report No. 240725011SHF-010

Appendix A: Sample Received Photo



Revision:

NO.	Date	Changes
240725011SHF-010	2024-08-22	First issue