

Changzhou Senhong Decorative Materials Co., LTD.

TEST REPORT

SCOPE OF WORK

AQUA FLOOR (Laminate Floor)

REPORT NUMBER

200424005SHF-001

TEST DATE(S)

2020-04-24 - 2020-05-07

ISSUE DATE

2020-05-07

PAGES

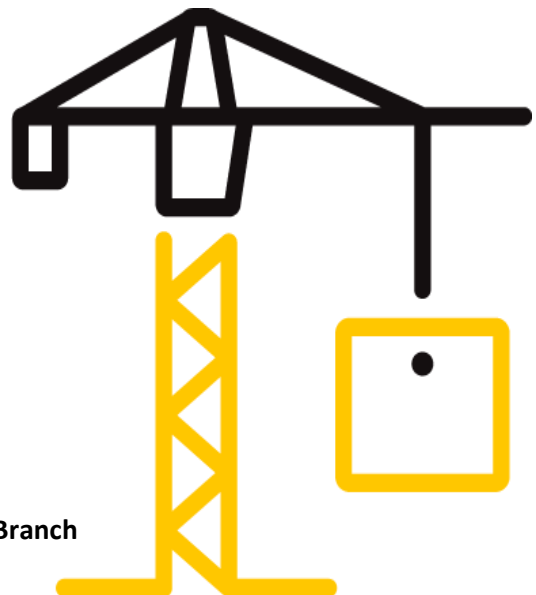
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DOCUMENT CONTROL NUMBER

LFT-APAC-SHF-OP-10k(May 1, 2020)

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Test Report

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Test Report

Issue Date: 2020-05-07

Intertek Report No. 200424005SHF-001

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 72h

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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Test Items, Method and Results:

3 Test Result

Specimen	1	2	3
Maximum Distance (mm)	130	110	110
Time to Maximum Distance (min:sec)	16:40	12:51	12:28
Time to All Flame Out (min:sec)	17:25	13:25	13:17
Critical Radiant Flux (W/cm ²)	1.04	1.07	1.07
Average Critical Radiant Flux (W/cm ²)	1.06		
Standard Deviation (W/cm ²)	0.02		
Coefficient of Variation (%)	1.63		

Observation

Specimen	Blistering (min:sec)	Discolored (min:sec)	Smoking (min:sec)	Ignition (min:sec)
1	3:36	5:07	5:10	5:13
2	3:50	5:09	5:11	5:18
3	3:44	5:06	5:08	5:14



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Test Items, Method and Results:

4 Test photos



Before test



After test



Test Report

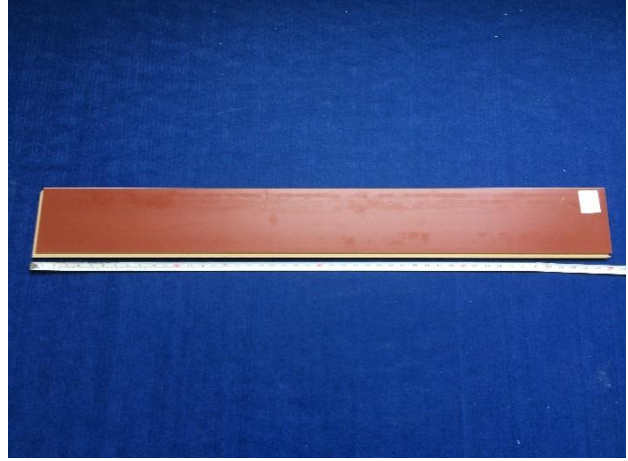
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Appendix A: Sample Received Photo



Front View(Test Surface)



Back View

Revision:

NO.	Date	Changes	Author	Reviewer
200424005SHF-001	2020-05-07	First issue	Huth Huang	Tod Qian

