

# FLOORCO TRADING LTD.

## TEST REPORT

**SCOPE OF WORK**

FLOORCO ATWOOD & GL Engineered wood flooring

**REPORT NUMBER**

230822002SHF-011

**TEST DATE(S)**

2023-08-23 - 2023-10-08

**ISSUE DATE**

2023-11-01

**PAGES**

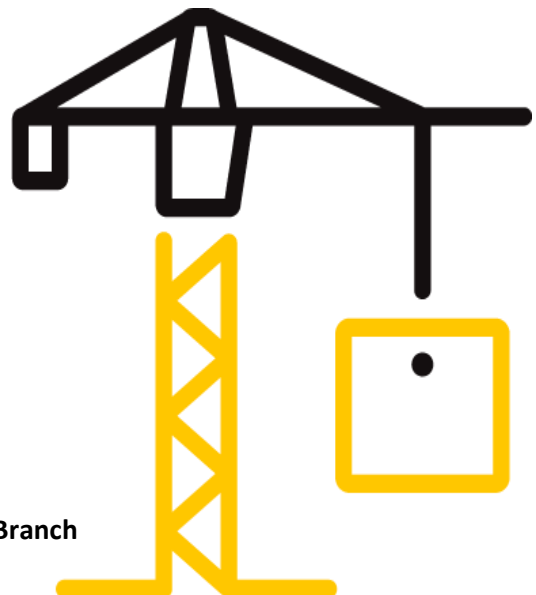
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**DOCUMENT CONTROL NUMBER**

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: 2023-11-01 Intertek Report No. 230822002SHF-011  
 Applicant: FLOORCO TRADING LTD.  
 Address: 118 CARBINE ROAD, MT WELLINGTON  
 Attn: Terry SHI  
 Test Type: Performance test, samples provided by the applicant.

### Product Information

<b>Product Name</b>	FLOORCO ATWOOD & GL Engineered wood flooring	<b>Brand</b>	/
<b>Sample Description</b>	Good Condition	<b>Sample Amount</b>	48 pcs
		<b>Received Date</b>	2023-08-23
<b>Sample ID</b>	<b>Model</b>	<b>Specification</b>	
S230822002SHF.033	FLOORCO ATWOOD & GL	1900mm×190mm×14mm	

### Test Methods And Standards

<b>Test Standard</b>	ASTM E648-19a <sup>e1</sup>
<b>Specification Standard</b>	/
<b>Test Conclusion</b>	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

*Sally Xie*  *Jackie Zhou*

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Name: Sally Xie      Name: Jackie Zhou  
 Title: Reviewer      Title: Project Engineer



# Test Report

Issue Date: 2023-11-01

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## Test Items, Method and Results:

Test Item: Critical radiant flux

Test Method: ASTM E648-19a<sup>e1</sup>

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  $\text{w}/\text{cm}^2$ ) 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  $30^\circ$  angle from the horizontal.

### 2 Test Procedure

At least three specimens shall be tested. Following the ASTM E648-19a<sup>e1</sup> 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.



## Test Report

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### Test Items, Method and Results:

#### 3 Test Result

Specimen	1	2	3
Maximum Distance (mm)	530	500	520
Time to Maximum Distance (min:sec)	38:47	39:26	39:53
Time to All Flame Out (min:sec)	41:43	40:32	45:51
Critical Radiant Flux (W/cm <sup>2</sup> )	0.33	0.36	0.34
Average Critical Radiant Flux (W/cm <sup>2</sup> )	0.34		
Standard Deviation (W/cm <sup>2</sup> )	0.02		
Coefficient of Variation (%)	4.45		

#### Observation

Specimen	Smoking (min:sec)	Discolored (min:sec)	Ignition (min:sec)
1	4:31	3:53	5:05
2	4:29	3:57	5:06
3	4:25	3:58	5:06

# Test Report

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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
230822002SHF-011	2023-11-01	First issue

