TEST REPORT

Intertek Testing Services NA, Inc.
16015 Shady Falls Road
Elmendorf, TX 78112
(voice) 210-635-8100
(fax) 210-635-8101
www.intertek.com

ASTM E648
Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source

Jiangsu Kentier Co., Ltd.
WPC Flooring

Project No. 101786319SAT-001A (REV 1)

Issued: August 22, 2014
Revised: September 26, 2014

EVALUATION CENTER
Intertek Testing Services NA Inc.
16015 Shady Falls Road
Elmendorf, Texas 78112

Prepared for:
Jiangsu Kentier Co., Ltd.
Kentier Industrial Park Zone
88 Development Road, Danyang City
Jiangsu Province, China

TEST REPORT

Sample Received: August 18, 2014
(This specimen was received in good condition.)

Test Date: August 21, 2014

Sample Conditioning: 69.8±5.4°F and 50±5% relative humidity

Sample Identification
ID: 241*1041.5*7 (mm) WPC Flooring

Description
PVC Flooring

Sample Preparation
The samples were sent directly by the client. Samples were not independently selected for testing by Intertek.

Environmental Conditions: 78°F and 51% r.h.

This Test Witnessed by: n/a

Test Overview
This procedure provides a way of measuring *critical radiant flux* (the level of incident radiant heat energy on floor-covering systems at the most distant flame-out point, reported as W/cm^2) of horizontally mounted attic floor insulation exposed to a flaming ignition source while being exposed to radiant heat energy from a panel with approximately a 30° angle from the horizontal. The radiant flux ranges from 1.07 W/cm^2 at the 100 mm mark to 0.15 W/cm^2 at the 900 mm mark.

Test Procedure
At least three specimens shall be tested. The specimens are conditioned at 69.8 ± 5.4°F and a relative humidity of 50 ± 5 % for a minimum of 48 hours. Following the ASTM E648 calibration procedures, the first specimen was loaded into the test chamber. After a 5 minute pre-heat time, the pilot flame was placed into contact with the specimen at the 0 mm mark. This pilot flame is to remain in contact with the specimen for 5 minutes, then removed. If the specimen does not propagate flame during the 5 minute 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 Results

ASTM E 648

Specimen	1	2	3
Maximum Distance (mm)	65	110	150
Time to Max. Distance (min.)	5:10	10:00	10:05
Critical Radiant Flux (W/cm^2)	N/A	104	100
Time to All Flame Out(min.)	5:10	10:00	10:05

***Data below 100mm is not available. (Radiant Flux at 100mm =1.07 W/cm sq.)*
It is not part of the test standard procedure to record radiant flux values below 100mm.
**No ignition*

Observations (min: sec)

Run No.	Smoking	Discolored	Ignition
1	0:48	1:37	5:10
2	1:17	1:56	5:05
3	1:05	1:55	5:02

Average Critical Radiant Flux (W/cm2)= N/A

Standard deviation = N/A

Coefficient of variation = N/A

Colby Friant

August 22, 2014

Colby Friant
Technician II

Reviewed and approved:

Jason De La Cruz

August 22, 2014

Jason De La Cruz
Project Engineer

REVISION SUMMARY

DATE	SUMMARY
8/22/2014	Original Issue. No Revisions.
9/26/2014	Corrected client name from “Jiangsu Kentier Wood” to “Jiangsu Kentier Co., Ltd.”