ASTM E648

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/cm²) 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/cm² at the 100 mm mark to 0.15 W/cm² 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

<table>
<thead>
<tr>
<th>Specimen</th>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Distance (mm)</td>
<td>65</td>
<td>110</td>
<td>150</td>
</tr>
<tr>
<td>Time to Max. Distance (min.)</td>
<td>5:10</td>
<td>10:00</td>
<td>10:05</td>
</tr>
<tr>
<td>Critical Radiant Flux (W/cm²)</td>
<td>N/A</td>
<td>104</td>
<td>100</td>
</tr>
<tr>
<td>Time to All Flame Out(min.)</td>
<td>5:10</td>
<td>10:00</td>
<td>10:05</td>
</tr>
</tbody>
</table>

**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)

<table>
<thead>
<tr>
<th>Run No.</th>
<th>Smoking</th>
<th>Discolored</th>
<th>Ignition</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0:48</td>
<td>1:37</td>
<td>5:10</td>
</tr>
<tr>
<td>2</td>
<td>1:17</td>
<td>1:56</td>
<td>5:05</td>
</tr>
<tr>
<td>3</td>
<td>1:05</td>
<td>1:55</td>
<td>5:02</td>
</tr>
</tbody>
</table>

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

Standard deviation = N/A

Coefficient of variation = N/A
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Colby Friant
Technician II

Reviewed and approved:

Jason De La Cruz
Project Engineer

August 22, 2014
# REVISION SUMMARY

<table>
<thead>
<tr>
<th>DATE</th>
<th>SUMMARY</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/26/2014</td>
<td>Corrected client name from &quot;Jiangsu Kentier Wood&quot; to &quot;Jiangsu Kentier Co., Ltd.&quot;</td>
</tr>
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