

TEST REPORT

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

Self – Adhesive Vinyl; ID: panoRama Walk & Wall

Project No. 101611878SAT-001A

May 28, 2014

Prepared for: Continental Grafix USA Inc. 304 Leitz Place Statesville, NC 28677

## TEST REPORT

Sample Received:	April 09, 2014 (This specimen was received in good condition.)
Test Date:	May 22, 2014
Sample Conditioning:	69.8±5.4°F and 50±5% relative humidity

#### Sample Identification

ID: panoRama Walk & Wall

#### **Description**

Self – Adhesive Vinyl

# Sample Preparation

The samples had a self-adhesive backing and were applied to cement board by Intertek.

**Environmental Conditions:** 72°F and 66% 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<sup>2</sup>) 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 1.03 W/cm<sup>2</sup> at the 100 mm mark to 0.15 W/cm<sup>2</sup> at the 900 mm mark.

#### Test Procedure

At least three specimens shall be tested. The specimens are conditioned at  $69.8 \pm 5.4^{\circ}$ F and a relative humidity of  $50 \pm 5$ % 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 Panels

Specimen	1	2	3
Maximum Distance (mm)	122	53	34
Time to Max. Distance (min.)	10:04	10:03	10:09
Critical Radiant Flux (W/cm <sup>2</sup> )	1.00	N/A	N/A
Time to All Flame Out(min.)	10:04	10:03	10:09

\*\*Data below 100mm is not available. (Radiant Flux at 100mm =1.03 W/cm sq.) It is not part of the test standard procedure to record radiant flux values below 100mm.

#### **Observations (min: sec)**

Run No.	Smoking	Discolored	Ignition
1	1.15	4:15	5:10
2	1:21	4:08	5:12
3	1:30	N/A	5:03

The average critical flux, the standard deviation, and the coefficient of variation were not applicable.



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<u>May 28, 2014</u>

<u>May 28, 2014</u>



### **REVISION SUMMARY**

DATE	SUMMARY
5/28/2014	Original Issue. No Revisions.

