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ROYSONS CORPORATION
TEST REPORT

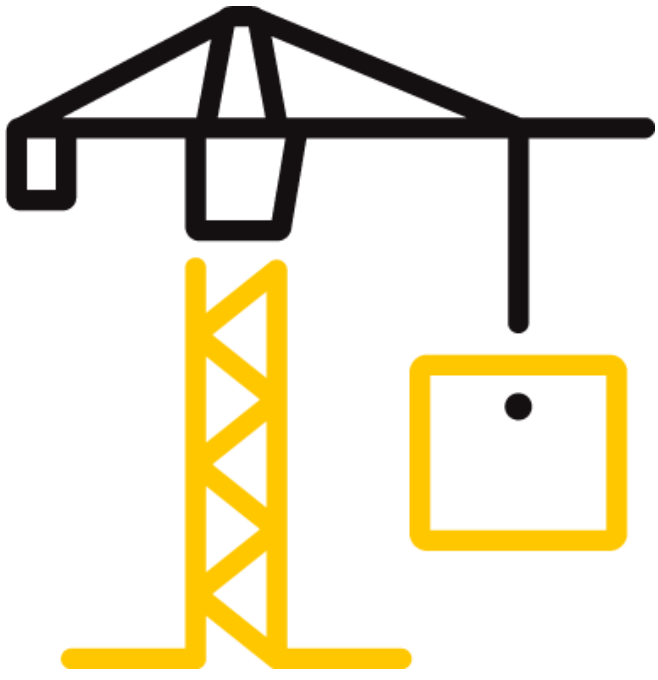
SCOPE OF WORK
ASTM E648-19A STANDARD TEST METHOD FOR CRITICAL RADIANT FLUX OF FLOOR-COVERING SYSTEMS USING A RADIANT HEAT ENERGY SOURCE ON WALLWRAP; CAVIAR

PROJECT NUMBER
104318997SAT-001

TEST DATE
05/14/2020

ISSUE DATE
05/18/2020

PAGES
8



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TEST SUMMARY FOR ROYSONS CORPORATION
Project No.: 104318997SAT-001
Date: 05/18/2020

REPORT ISSUED TO

ROYSONS CORPORATION
40 Vanderhoof Avenue
Rockaway, NJ 07866

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by ROYSONS CORPORATION, 40 Vanderhoof Avenue, Rockaway, NJ 07866 to perform testing in accordance with ASTM E648-19A Standard Test Method for Critical Radiant Flux of Floor-Covering Systems using a Radiant Heat Energy Source, on their WALLWRAP; CAVIAR. Results obtained are tested values and were secured by using the designated test method. Testing was conducted at the Intertek B&C test facility in Elmendorf, TX. This report does not constitute performance certification of this product nor an opinion or endorsement by this laboratory.

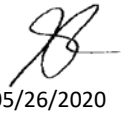
SECTION 2

TEST METHOD

The specimen was evaluated in accordance with the following:

> **ASTM E648-19A,** *Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source*

For INTERTEK B&C:

COMPLETED BY:	Theodore Salazar	**REVIEWED BY:**	Servando Romo
TITLE:	Technician 3	**TITLE:**	Project Engineer
SIGNATURE:		**SIGNATURE:**	
DATE:	05/18/2020	**DATE:**	05/26/2020

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SECTION 3
TEST SPECIMEN DESCRIPTION

SAMPLE ID	CAVIAR
DESCRIPTION	WALLWRAP
SPECIMEN PREPARATION	Specimen was sent by client in a sheet. Specimen was then cut to the dimensions required by the standard (41in x 9in to fit into the test frame) by Intertek.
RECEIVED DATE	04/30/2020 (Samples received in good condition)
INTERTEK SAMPLE TRACKER NUMBER	SAT2004301612-001
SAMPLE COND.	69.8±5.4°F and 50±5% relative humidity
ENVIRONMENTAL COND.	73°F and 63-65% r.h.

SECTION 4
LIST OF OBSERVERS

NAME	COMPANY
Theodore Salazar	Intertek B&C

SECTION 5
TEST OVERVIEW & PROCEDURE

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/cm2) 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. The radiant flux ranges from 1.09 W/cm2 at the 100 mm mark to 0.13 W/cm2 at the 900 mm mark.

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 E648-19A 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

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critical radiant flux, based on a radiant heat energy flux profile curve of the apparatus obtained during calibration.

SECTION 6
TEST RESULTS

Specimen	1	2	3
Maximum Distance (mm)	80*	40*	60*
Time to Max. Distance (min.)	10:00	10:00	10:00
Critical Radiant Flux (W/cm^2)	>1.09*	>1.09*	>1.09*
Time to All Flame Out (min.)	10:00	10:00	10:00

*Data below 100mm is not available. (Radiant Flux at 100mm =1.09 W/cm sq.)
It is not part of the test standard procedure to record radiant flux values below 100mm.

Run No.	Smoking	Discolored	Ignition
1	0:46	3:29	5:06
2	0:53	4:32	5:02
3	0:51	2:40	5:02

Average Critical Radiant Flux (W/cm^2) = N/A

Standard deviation = N/A

Coefficient of variation = N/A

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SECTION 7
REQUIREMENTS FOR CLASSES

ASTM E648 does not have a pass/fail criteria. In most cases the codes that require this testing will indicate criteria for the critical radiant heat flux as categorized by Class I or Class II. The requirements for these classes will depend on the code that is applicable for the product and/or installation.

For example, NFPA 101 Life Safety Code (2015 edition) states that:

10.2.7.3* Interior floor finishes shall be classified in accordance with 10.2.7.4, based on test results from NFPA 253, Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source, or ASTM E 648, Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source.

10.2.7.4.1 Class I Interior Floor Finish. Class I interior floor finish shall have a critical radiant flux of not less than 0.45 W/cm2, as determined by the test described in 10.2.7.3.

10.2.7.4.2 Class II Interior Floor Finish. Class II interior floor finish shall have a critical radiant flux of not less than 0.22 W/cm2, but less than 0.45 W/cm2, as determined by the test described in 10.2.7.3.

The requirements for the above mentioned classes will depend on the code that is applicable for the product and/or installation.

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SECTION 8
PHOTOGRAPHS

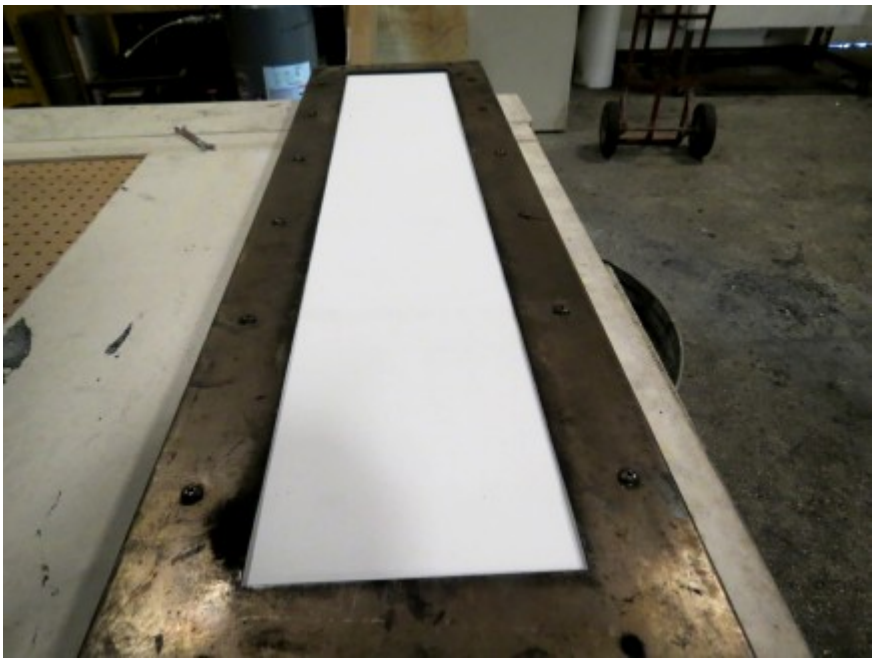

Photo No. 1

Photo No. 2

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Photo No. 3

Photo No. 4

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TEST SUMMARY FOR ROYSONS CORPORATION

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SECTION 10

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	05/18/2020	N/A	Original Report Issue