



Floorscore

FloorScore is the most recognized indoor air quality (IAQ) certification standard for hard surface flooring materials, adhesives, and underlayments.

FloorScore is an independent certification program that tests and certifies hard surface flooring and the materials they're made with to ensure they are in compliance with stringent indoor air quality emissions. The FloorScore certification leads to healthier, cleaner air.

Fire Radiant Test—ASTM 648

ASTM E648 (the same test as NFPA 253) is ASTM's Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source. This test is designed to simulate thermal radiation levels from an adjacent fire, and to rate different materials for use in different occupancies.

Coefficient Friction Test—ASTM C1028

ASTM C1028 is a standard test method for determining the static coefficient of friction of ceramic tile and other like surfaces by the horizontal dynamometer pull-meter method. Consequently, a COF close to "0" refers to slippery surfaces whereas a COF near "1" refers to high friction surfaces.



SCS Global Services does hereby certify that an independent assessment has been conducted on behalf of:

Artistry Hardwood Floor

14418 Best Ave., Santa Fe Springs, CA, United States

For the following product(s):

Engineered Hardwood:

1/2"-3/4": Windsor Collection, Loft Collection, Heritage Collection, Norwood Collection, Sedona Collection, Santa Fe Collection, Orleans Collection, Islands Collection, Vistas Collection, Manhattan Collection, Charleston Collection, Madison Collection, Hartford Collection

The product(s) meet(s) all of the necessary qualifications to be certified for the following claim(s):

FloorScore®

Indoor Air Quality Certified to SCS-EC10.3-2014 v4.0

Conforms to the CDPH/EHLB Standard Method v1.2-2017 (California Section 01350), effective April 1, 2017, for the school classroom and private office parameters when modeled as Flooring.

Measured Concentration of Total Volatile Organic Compounds (TVOC): Less than/equal to 0.5 mg/m³ (in compliance with CDPH/EHLB Standard Method v1.2-2017)

Registration # SCS-FS-04011

Valid from: August 2, 2019 to April 30, 2020

SCS Global Services is currently the only certification body approved by the Resilient Floor Covering Institute (RFCI) to provide FloorScore® product certification; certified products are only listed on the SCS Green Products Guide, <http://www.scsglobalservices.com/certified-green-products-guide>.



A handwritten signature in black ink that reads "Stanley Mathuram".

Stanley Mathuram, PE, Vice President

SCS Global Services

2000 Powell Street, Ste. 600, Emeryville, CA 94608 USA



COMMERCIAL TESTING COMPANY

1215 South Hamilton Street • Dalton, Georgia 30720
Telephone (706) 278-3935 • Facsimile (706) 278-3936

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

ASTM International E648-17

Sedona Collection 5/8 Multi-ply

Report Number 19-03130

Test Number 5054-4079-0319R2
July 18, 2017

Artistry Hardwood
Santa Fe Springs, California

Commercial Testing Company

(Authorized Signature)

This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. The test results presented in this report apply only to the samples tested and are not necessarily indicative of apparent identical or similar materials. Sample selection and identification were provided by the client. A sampling plan, if described in the referenced test procedure, was not necessarily followed. This report, or the name of Commercial Testing Company, shall not be used under any circumstance in advertising to the general public.

TESTED TO BE SURE®
Since 1974

INTRODUCTION

This test report is a presentation of results of a flammability test on a material submitted by Artistry Hardwood, Santa Fe Springs, California. The test was conducted in accordance with the ASTM International fire test response standard E648-17, *Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source*. This method is sometimes referred to as the flooring radiant panel.

This test method, which has been approved for use by agencies of the Department of Defense and for listing in the DoD *Index of Specifications and Standards*, is technically identical to the method described in NFPA Number 253. It measures the critical radiant flux at flame-out of horizontally mounted complete flooring-covering systems that duplicate or simulate accepted installation practices. Tests on individual components are of limited value and are not valid for certification purposes.

This standard is used to measure and describe the response of materials, products, or assemblies to heat and flame under controlled conditions, but does not by itself incorporate all factors required for fire-hazard or fire-risk assessment of materials, products, or assemblies under actual fire conditions.

PURPOSE

The flooring radiant panel test measures the level of incident radiant heat energy at flame-out of a floor-covering system. It provides a basis for estimating one aspect of fire behavior of systems installed in corridors or exitways. Imposed radiant flux simulates thermal radiation levels likely to impinge on the floors of a building whose upper surfaces are heated by flames or hot gases, or both, from a fully developed fire in an adjacent room or compartment.

TEST PROCEDURE

A gas and air fueled radiant heat energy panel is mounted in the test chamber at a 30° angle to the horizontal plane of the specimen. The panel generates an energy flux distribution ranging along the length of the test specimen from a nominal maximum of 1.0 W/cm² to a minimum of 0.1 W/cm². Air flow through the chamber is controlled at a velocity of 250 feet per minute. The test is initiated using a gas pilot burner brought into contact with the specimen and extinguished after a specified time.

The floor-covering system, fully described in Table I, is tested in triplicate, each specimen measuring 20 cm wide by 100 cm long. Prepared specimens are conditioned a minimum of 96 hours in an atmosphere maintained at 71 ± 2°F and 50 ± 3% relative humidity. Chamber operating conditions are verified on the day of the test by measuring the flux level at the 40 cm mark. An incident flux level of 0.50 ± 0.02 W/cm² indicates proper operation and calibration of the test chamber.

Specimens are placed in the chamber and allowed to preheat for 5.0 minutes followed by a 5.0-minute application of the pilot burner. The specimens are allowed to burn until they self-extinguish, at which time they are removed from the test chamber and the farthest point of flame propagation measured. The critical radiant flux is determined from the flux profile determined during calibration of the test instrument.

TEST RESULT

The test result is presented as the average value of the three specimens tested expressed in terms of Critical Radiant Flux in units of W/cm². All pertinent individual specimen data are presented in Table II. The flux profile shown in the figure is typical of that determined during calibration of the flooring radiant panel instrument used for this test.

TABLE I. FLOOR COVERING SYSTEM

Floor Covering:

Identification: Sedona Collection 5/8 Multi-ply
 Type Material: T&G Flooring Planks
 Thickness: 5/8-inch
 Size: 7 inches x 86.6 inches

Floor Covering System:

Installation: Free Lay
 Subfloor: Simulated Concrete (Reinforced Cement Board)

TABLE II. TEST RESULT

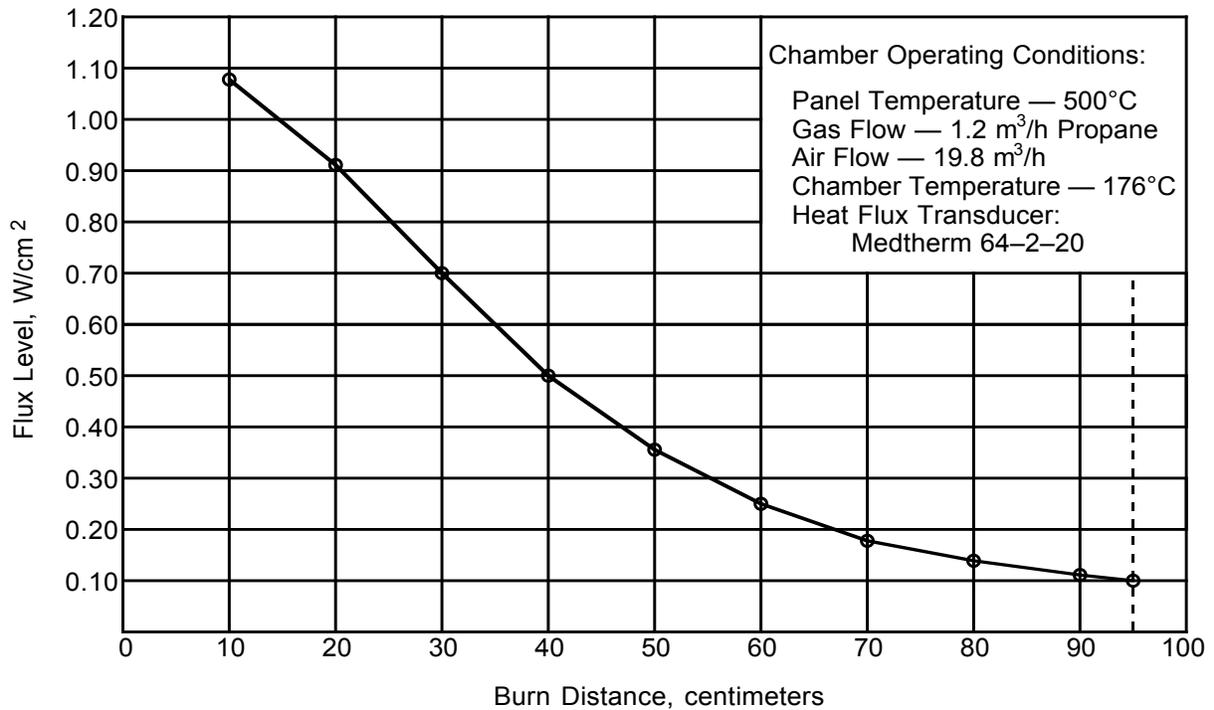
Test Data	#1	#2	#3
Maximum Burn Distance (cm)	42.2	35.1	42.5
Time to Flame Out (min)	23.4	22.9	22.9
Critical Radiant Flux (W/cm^2)	0.46	0.59	0.46
Standard Deviation = 0.08			

Average Critical Radiant Flux **0.50 W/cm^2**

The NFPA 101 *Life Safety Code* states in Section 10.2.7.2 that floor coverings other than carpets shall have a minimum critical radiant flux of $0.1 W/cm^2$.

NFPA 101 Classification Class I

TYPICAL FLUX PROFILE





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Report Number 19-04150

**Artistry Hardwood
 Santa Fe Springs, California**

**Test Number 5394-1986-A
 April 10, 2019**

Coefficient of Friction

Test Method: The test was conducted in accordance with the ASTM International Test Method C1028, *Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method*. This test measures the static coefficient of friction, defined as the ratio of horizontal force applied to a body that just overcomes the friction or resistance to slipping, to the vertical component of the weight of the object or force applied to it. Static coefficient of friction is one important factor relative to slip resistance. While other factors can affect slip resistance, this method is used to determine the property of a flooring surface under controlled laboratory conditions. It should not be used to determine slip resistance under field conditions unless those conditions are fully defined. The test is conducted using a 22 kilogram weight in combination with a standard heel assembly. The weight with the heel assembly attached is placed on the flooring surface and pulled with a Chatillon Model DFG-100 dynamometer which measures the force required to set the test assembly into motion. The test result is calculated using the highest reading recorded. The standard Neolite® heel assembly is calibrated prior to each test using Standard Tile #8425, Lot Number 56H, Mexican Sand, under both dry and wet conditions. Three specimens are tested dry and three tested wet. An initial measurement is made on each specimen with the force applied parallel to the manufacturing direction. Three additional measurements are made with the force applied perpendicular to the previous measurement.

Material Tested:

Identification: Sedona/Santa Fe/Norwood Collections Oak Floor
 Type Material: Engineered Flooring

Test Result:

	Dry Test Conditions			Wet Test Conditions		
	1	2	3	1	2	3
1	0.73	0.67	0.78	0.67	0.68	0.63
2	0.68	0.69	0.68	0.63	0.67	0.67
3	0.65	0.66	0.73	0.65	0.64	0.68
4	0.78	0.77	0.78	0.74	0.78	0.80
Specimen Average	0.71	0.70	0.75	0.67	0.69	0.70
Overall Average	0.72			0.69		

Commercial Testing Company

(Authorized Signature)

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