



TEST REPORT

DATE:04-21-2021

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TEST NUMBER:0275635

CLIENT	North American Primo Flooring, LLC
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TEST METHOD CONDUCTED	ASTM E648 Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using A Radiant Heat Energy Source, also referenced as NFPA 253 and FTM Standard 372
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Waterproof Laminate Flooring Sample
CONSTRUCTION	Laminate Flooring

GENERAL PRINCIPLE

This procedure is designed to measure the critical radiant flux at flame out of horizontally mounted floor covering systems exposed to a flaming ignition in a test chamber which provides a graded radiant heat energy environment. The imposed radiant flux simulates the thermal radiation levels likely to impinge on the floors of a building whose upper surfaces are heated by flames from a fully developed fire in an adjacent room or compartment. The test result is an average critical radiant flux (watts/square cm) which indicates the level of radiant heat energy required to sustain flame propagation in the flooring system once it has been ignited. A minimum of three test specimens are tested and the results are averaged. Theoretically, if a room fire does not impose a radiant flux that exceeds this critical level on a corridor floor covering system, flame spread will not occur.

The NFPA Life Safety Code 101 specifies as Class 1 Critical Radiant Flux of .45 watts/sq cm or higher and Class 2 Critical Radiant Flux as .22 - .44 watts/sq cm.

FLOORING SYSTEM ASSEMBLY			
SUBSTRATE	Mineral-Fiber/Cement Board	UNDERLAYMENT	Loose Laid
ADHESIVE	N/A	CONDITIONING	Minimum of 96 hours at 70 ±5°F and 50 ± 5% relative humidity

	Distance Burned	Time To Flame Out	Critical Radiant Flux
Specimen 1	12 cm	8 minutes	1.07 watts/square cm
Specimen 2	16 cm	6 minutes	1.00 watts/square cm
Specimen 3	15 cm	9 minutes	1.02 watts/square cm

Average Critical Radiant Flux	1.03 Watts/Square Cm
Standard Deviation	0.03 Watts/Square Cm
Coefficient of Variation	2.86 %

NOTE: Meets or exceeds Class 1 rating as specified in NFPA Life Safety Code 101.

APPROVED BY: *Gary Asberry*



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# TEST REPORT

DATE: 04-21-2021

TEST NUMBER: 0275635

CLIENT	North American Primo Flooring, LLC
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TEST METHOD CONDUCTED	NALFA 3.5 Large Ball Impact Resistance
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Waterproof Laminate Flooring Sample
CONSTRUCTION	Laminate Flooring

## GENERAL PRINCIPLE

This test measures the ability of a laminate flooring to resist fracture due to impact by a large diameter ball (224 grams) falling onto the surface of the unrestricted laminate floor sample. Drops are conducted in incremental heights until the surface of the material is fractured. The submitted material was tested according to the NALFA requirements using the proper underlayment.

## TEST RESULTS

MAXIMUM HEIGHT TO ACHIEVE FRACTURE OF SURFACE LAYER	RESULT
WITH UNDERLAYMENT	1400 mm (55.1 inch)

**\* Meets NALFA specified criteria for usage Levels 1, 2, 3 and 4.**

Class 1 RESIDENTIAL	Class 2 LIGHT COMMERCIAL	Class 3 COMMERCIAL	Class 4 HEAVY COMMERCIAL
> 800 mm (31.5 inch)	> 1000 mm (39.4 inch)	> 1200 mm (47.3 inch)	> 1400 mm (55.1 inch)

APPROVED BY:

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# TEST REPORT

DATE: 04-21-2021

TEST NUMBER: 0275635

<b>CLIENT</b>	North American Primo Flooring, LLC
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<b>TEST METHOD CONDUCTED</b>	NALFA 3.6 Small Ball (Dart) Impact Resistance
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DESCRIPTION OF TEST SAMPLE	
<b>IDENTIFICATION</b>	Waterproof Laminate Flooring Sample
<b>CONSTRUCTION</b>	Laminate Flooring

### GENERAL PRINCIPLE

This test measures the ability of a laminate flooring to resist fracture due to impact by a small diameter ball/dart (25 grams) falling onto the surface of the unrestricted laminate floor sample. Drops are conducted in incremental heights until the surface of the material is fractured. The submitted material was tested according to the NALFA requirements using the proper underlayment.

### TEST RESULTS

MAXIMUM HEIGHT TO ACHIEVE FRACTURE OF SURFACE LAYER	RESULT
WITH UNDERLAYMENT	500 mm (19.7 inch)

**\* Meets NALFA specified criteria for usage Levels 1, 2, 3 and 4.**

Class 1 RESIDENTIAL	Class 2 LIGHT COMMERCIAL	Class 3 COMMERCIAL	Class 4 HEAVY COMMERCIAL
> 200 mm (7.9 inch)	> 200 mm (7.9 inch)	> 350 mm (13.8 inch)	> 500 mm (19.7 inch)

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# TEST REPORT

DATE: 09-28-2022

TEST NUMBER: 0290421

<b>CLIENT</b>	North American Primo Flooring
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<b>TEST METHOD CONDUCTED</b>	NALFA 3.2 Thickness Swell
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DESCRIPTION OF TEST SAMPLE	
<b>IDENTIFICATION</b>	Ivan/BF553VN (SW74)
<b>CONSTRUCTION</b>	Wood Plank
<b>REFERENCE</b>	Waterproof Wood Sample

### GENERAL PRINCIPLE

This test measures the ability of laminate flooring to resist edge thickness increases after being exposed to distilled water. Two 6" x 6" specimens are cut and the thickness is calculated using a compressometer. The two samples are submerged one inch below the water line in 70° F distilled water for 24 hours and then removed and re-measured. The thickness swell is calculated as a percentage of the original thickness.

### TEST RESULTS

	THICKNESS SWELL	PERCENTAGE SWELL
SPECIMEN 1	+0.008 Inch	+1.6%
SPECIMEN 2	+0.006 Inch	+1.2%

**\* Meets NALFA specified criteria for usage Levels 1, 2, 3 and 4.**

Class 1 RESIDENTIAL	Class 2 LIGHT COMMERCIAL	Class 3 COMMERCIAL	Class 4 HEAVY COMMERCIAL
≤ 18%	≤ 16%	≤ 16%	≤ 12%

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