



TEST REPORT

DATE:05-23-2023

Page 1 of 1

TEST NUMBER:0297622

CLIENT	AHF Products
--------	--------------

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
-----------------------	---



DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Armstrong Medintone Vinyl Sheet (Homogeneous)

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	Direct Glue Down
ADHESIVE	Acrylic	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	6 minutes	0.97 watts/square cm
Specimen 2	13 cm	5 minutes	0.97 watts/square cm
Specimen 3	15 cm	6 minutes	0.95 watts/square cm

Average Critical Radiant Flux	0.96 Watts/Square Cm
Standard Deviation	0.01 Watts/Square Cm
Coefficient of Variation	0.98 %

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

APPROVED BY: *Amy Asberry*



This facility is accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code 100297. This accreditation does not constitute an endorsement, certification, or approval by NIST or any agency of the United States Government for the product tested. 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. This report applies only to those samples tested and is not necessarily indicative of apparently identical or similar products. This report, or the name of Professional Testing Laboratory, Inc. shall not be used under any circumstance in advertising to the general public.

