Professional Testing Laboratory LLC

TEST REPORT

DATE:11-22-2024 **Page 1 of 1** **TEST NUMBER**:0312725

CLIENT	Go Green

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	HM65S
ROLL NUMBER	G39151A
CONSTRUCTION	Turf
REFERENCE	PO #18213

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	46 cm	28 minutes	0.39 watts/square cm
Specimen 2	---	---	--- watts/square cm
Specimen 3	---	---	--- watts/square cm

Average Critical Radiant Flux	0.39 Watts/Square Cm
Standard Deviation	--- Watts/Square Cm
Coefficient of Variation	--- %

NOTE: Due to small sample size submitted, procedural guidelines were modified.

APPROVED BY: Lee Phillips

NVLAP TESTING NVLAP LAB CODE 100297-0

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