TEST REPORT

FOR

Proflex Products Inc.

2826 Broadway Center Boulevard
Brandon, FL 33510

Standard Test Method for
Surface Burning Characteristics of Building Materials
ASTM E84–15a

Test Report No: FH-2656

Assignment No: H-1216

Test Dates: 05/27/2016

Report Date: 06/01/2016

Subject Material: PROFLEX™ SUPER SIM-90

Prepared by: _____

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Reviewed by: _____

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TEST REPORT REVISION HISTORY:

DATE	SUMMARY
June 1, 2016	Original issue date. Original NGCTS report FH-2656.

INTRODUCTION:

This report presents the results of a specimen tested in accordance with the requirements of ASTM E84-15a Standard Test Method for Surface Burning Characteristics of Building Materials. This test method is also published under the designations UL 723 and NFPA 255.

The purpose of this test method is to determine the relative behavior of the material by observing the flame spread along the specimen. Flame spread and smoke developed indexes are reported. However, there is not necessarily a relationship between these two measurements.

This standard is used to measure and describe the response of materials, products, or assemblies to heat and flame under controlled laboratory conditions. It should not alone be used for fire hazard or fire risk assessment of the materials, products, or assemblies under actual fire conditions.

TEST SPECIMEN:

The subject material was submitted for testing directly to NGC Testing Services (NGCTS) by the client, Proflex Products, Inc. The submitted material, which was received in good condition by NGCTS on May 16, 2016, was identified by the client as:

PROFLEX™ SUPER SIM-90

The material was submitted as a single, 100 sq. ft. roll of a "composite sound control flooring underlayment", measuring nominally 90 mils thick. The underlayment material consisted of a fabric reinforced face, laminated to a rubberized membrane with a peel-n-stick adhesive backing.

Utilizing the submitted SUPER SIM-90 underlayment, NGCTS personnel constructed the test specimen on May 20, 2016. The constructed test specimen consisted of six (6) composite panels, each measuring nominally 24 in. wide by 48 in. long. The composite test specimen panels were comprised of the SUPER SIM-90 underlayment adhered to 1/4 in. thick fiber cement board, and then covered with porcelain tile; utilizing multi-purpose thinset mortar and polymer modified sanded grout.

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MOUNTING METHOD:

The (6) test specimen panels were placed end-to-end, directly on the tunnel ledges (tile side exposed to the burner flames), and butted tightly together to achieve the required specimen length. No additional support was required.

Non-combustible, fiber-reinforced cement board (1/4 in. thick) was placed over the test specimen panels as lid protection.

TEST RESULTS:

The test results, computed on the basis of observed flame front advance and electronic smoke density measurements are presented in the following tables.

The reported flame spread and smoke developed indices, as presented in the table below, are the computed comparison to the standard calibration materials – mineral fiber-reinforced cement board and select grade red oak flooring. Cement board is used to establish relative 0 values for flame spread and smoke developed; red oak decks are used to establish relative 100 values for flame spread and smoke developed.

TEST NO.	MATERIAL TESTED	SIDE EXPOSED	SUPPORT	CALCULATED FLAME SPREAD	CALCULATED SMOKE DEVELOPED
1	PROFLEX SUPER SIM-90 (appplied to cement board and covered with porcelain tile)	Tile	Self-Supporting	0.00	0.01

	MATERIAL TESTED	SIDE EXPOSED	SUPPORT	FLAME SPREAD INDEX *	SMOKE DEVELOPED INDEX*
	RED OAK FLOORING	FINISHED	SELF-SUPPORTING	100	100
	REINFORCED CEMENT BOARD	SYMMETRICAL	SELF-SUPPORTING	0	0
1	PROFLEX SUPER SIM-90 (appplied to cement board and covered with porcelain tile)	Tile	Self-Supporting	**0**	**0**

CLASSIFICATION	FSI	SDI
CLASS A or I	0 - 25	0 - 450
CLASS B or II	26 - 75	0 - 450
CLASS C or III	76 - 200	0 - 450

* Flame Spread / Smoke Developed Index is the result (or the average of the results of multiple tests), rounded to the nearest multiple of 5. Smoke developed results in excess of 200 are rounded to the nearest multiple of 50.

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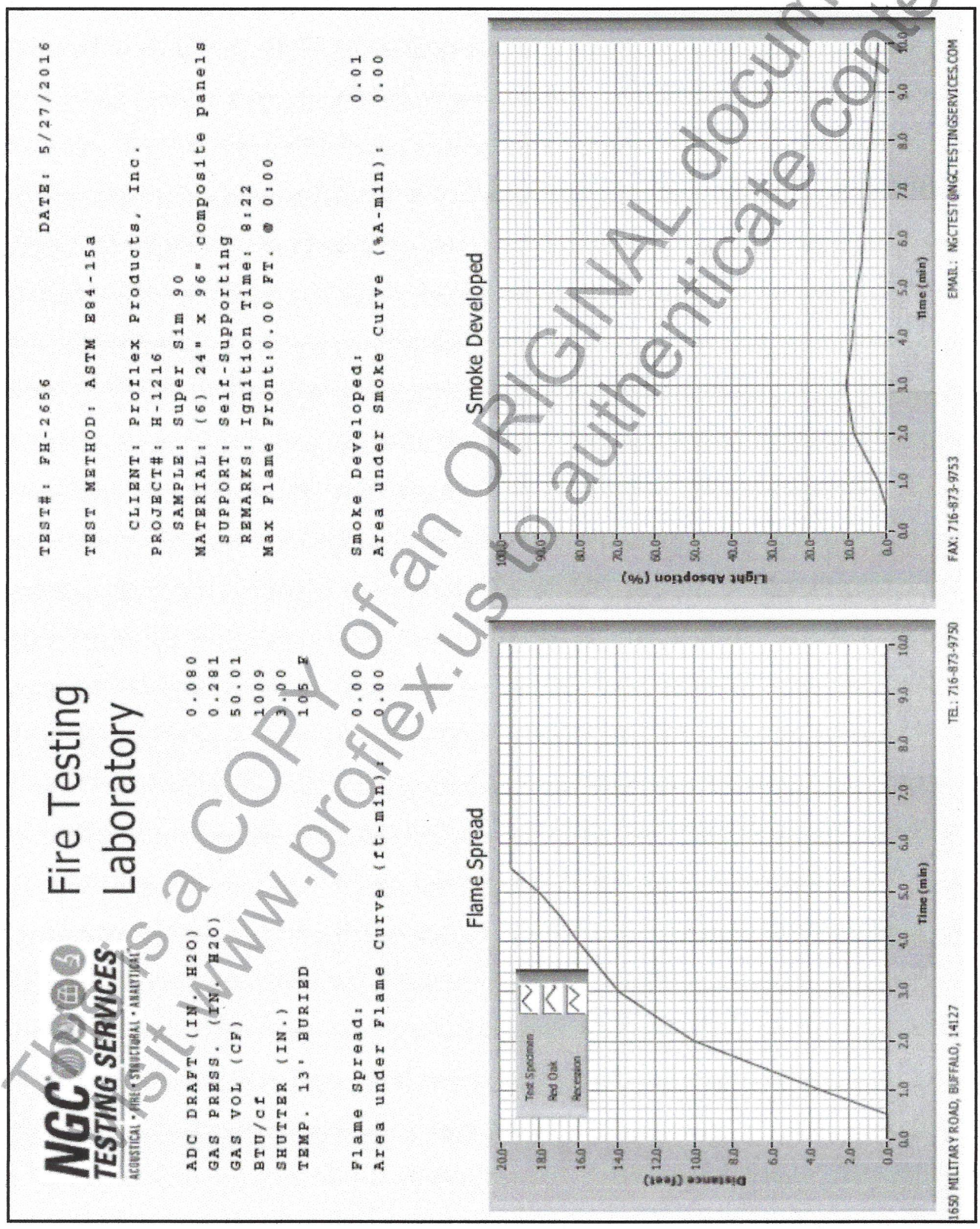
The following data sheet is an actual printout of the computerized data system which monitors the tunnel furnace. The sheet contains all calibration and specimen data needed to calculate the test results.



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Fire Testing Laboratory

TEST#: FH-2656 DATE: 5/27/2016

TEST METHOD: ASTM E84-15a

CLIENT: Proflex Products, Inc.
PROJECT#: H-1216
SAMPLE: Super Sim 90
MATERIAL: (6) 24" X 96" composite panels
SUPPORT: Self-Supporting
REMARKS: Ignition Time: 8:22
Max Flame Front:0.00 FT. @ 0:00

ADC DRAFT (IN. H2O)	0.080
GAS PRESS. (IN. H2O)	0.281
GAS VOL (CF)	50.01
BTU/cf	1009
SHUTTER (IN.)	3.00
TEMP. 13' BURIED	105 F

Flame Spread:	0.00
Area under Flame Curve (ft-min):	0.00
Smoke Developed:	0.01
Area under Smoke Curve (%A-min):	0.00

Flame Spread

Test Specimen
Red Oak
Recession

Distance (feet)

Time (min)

Smoke Developed

Light Absorption (%)

Time (min)

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