



Fire Testing Laboratory



TEST REPORT

FOR

PROFLEX PRODUCTS, INC.

2500 Drane Field Road
Suite #105
Lakeland, FL 33811

Surface Burning Characteristics of Building Materials

ASTM E-84-11a

Test Report No: FH-2332-3-5

Assignment No: H-915

Test Date: 09/20/2012

Report Date: 09/24/2012

Subject Material: White oak 3/4" hardwood flooring adhered to Proflex MSC 90 underlayment
White oak 3/4" hardwood flooring adhered to Proflex RCU 250 underlayment
White oak 3/4" hardwood flooring adhered to Proflex LV-100 underlayment

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Michael J. Rizzo
Test Engineer

Reviewed by: Robert J. Menchetti

Robert J. Menchetti
Director, Laboratory Facilities and Testing Services

The results reported in this document apply to specific samples submitted for measurement. No responsibility is assumed for performance of any other specimen. This report may not be reproduced, except in full, without the written approval of the laboratory. The laboratory's test reports in no way constitutes or implies product certification, approval or endorsement by this laboratory.

MATERIAL TESTED:

Material submitted by Proflex Products, Inc. of Lakeland, FL, was described by the client as:

**Composite Sample No. 3: White Oak 3/4" Hardwood Flooring
Moisture Cured PU Adhesive
Proflex MSC 90 Underlayment – 0.090" Thick
Hardy Cement Backer Board**

**Composite Sample No. 4: White Oak 3/4" Hardwood Flooring
Moisture Cured PU Adhesive
Proflex RCU 250 Underlayment – 0.250" Thick
Moisture Cured PU Adhesive
Hardy Cement Backer Board**

**Composite Sample No. 5: White Oak 3/4" Hardwood Flooring
Moisture Cured PU Adhesive
Proflex LV-100 Underlayment – 0.100" Thick
Moisture Cured PU Adhesive
Hardy Cement Backer Board**

Each composite sample was submitted in (6) 2 ft. wide x 4 ft. long decks, assembled in the order as listed above. The white oak hardwood flooring side was exposed to the fire.

METHOD OF SUPPORT:

The specimen decks were placed end to end, and butted tightly together, to achieve the required 24 ft. length. No additional support was required.

LID PROTECTION:

1/4 in. thick non-combustible fiber reinforced cement board was placed over the specimen as lid protection.

RESULTS:

The results can be found on page 3 of this report.

TEST NO.	MATERIAL TESTED	SIDE EXPOSED	SUPPORT	CALCULATED FLAME SPREAD	CALCULATED SMOKE DEVELOPED
1	Composite Sample No. 4	WHITE OAK	DECKS	50.16	152.64
2	Composite Sample No. 5	WHITE OAK	DECKS	46.35	119.98
3	Composite Sample No. 3	WHITE OAK	DECKS	57.26	132.14

MATERIAL TESTED	SIDE EXPOSED	SUPPORT	FLAME SPREAD INDEX*	SMOKE DEVELOPED INDEX*
RED OAK FLOORING	NA	DECKS	100	100
REINFORCED CEMENT BOARD	NA	SELF	0	0

1	Composite Sample No. 4	WHITE OAK	DECKS	50	155
2	Composite Sample No. 5	WHITE OAK	DECKS	45	120
3	Composite Sample No. 3	WHITE OAK	DECKS	60	130

CLASSIFICATION	FSI	SDI
CLASS "A"	< 25	0 - 450
CLASS "B"	26 - 75	0 - 450
CLASS "C"	76 - 200	0 - 450

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

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ADC DRAFT (IN H₂O) 0.080
 GAS PRESS (IN. H₂O) 0.293
 GAS VOL (CF) 50.55
 BTU/cf 988
 SHUTTER (IN.) 3.00
 TEMP. 13' BURIED 105 F

Flame Spread: 50.16
 Area under Flame Curve (ft-min): 97.40

TEST#: FH-2332-3 DATE: 9/20/2012

TEST METHOD: ASTM-E84-11a

CLIENT: Proflex Products, Inc.

PROJECT#: H-915

SAMPLE: Sample No. 4

MATERIAL: (6) 2' x 4' panels

SUPPORT: Wire & Rods

REMARKS:

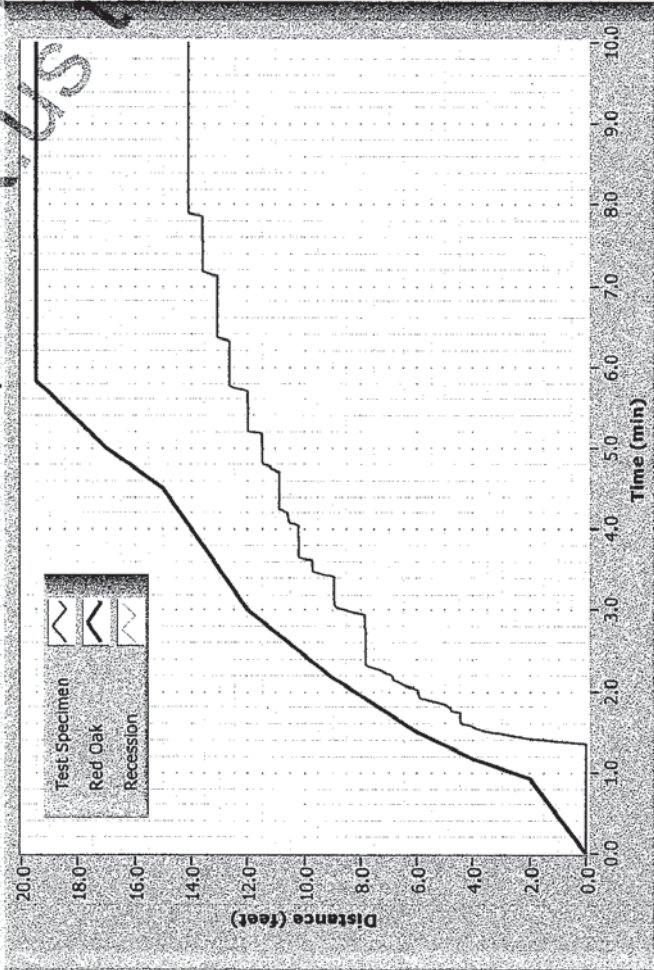
Ignition Time: 0:56

Max Flame Front: 14.09 FT. @ 8:09

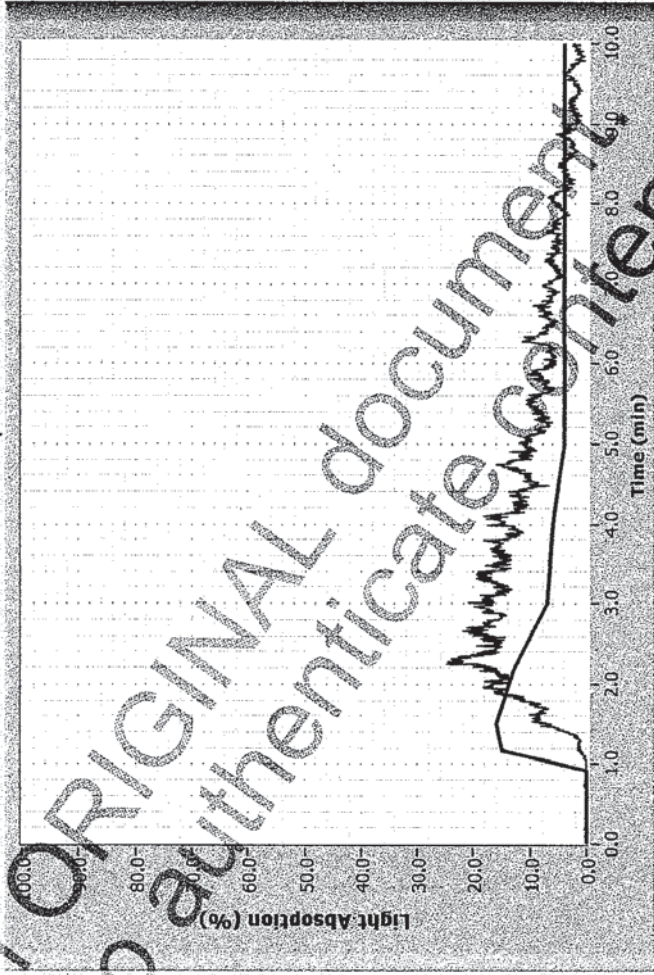
Smoke Developed: 152.64

Area under Smoke Curve (%A-min): 77.85

Flame Spread



Smoke Developed





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TEST#: FH-2332-4 DATE: 9/20/2012
TEST METHOD: ASTM-E84-11a

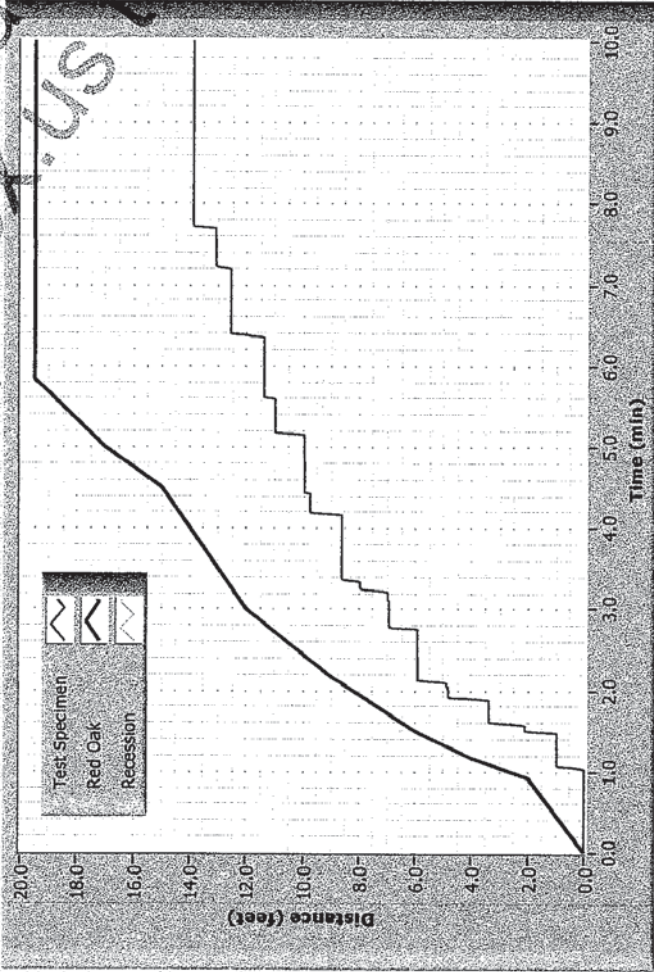
CLIENT: Proflex Products, Inc.
PROJECT#: H-915
SAMPLE: Sample No. 5
MATERIAL: (6) 2' x 4' panels
SUPPORT: Wire & Rods
REMARKS:
Ignition Time: 0:46
Max Flame Front: 13.88 FT. @ 9:16

0.080
0.286
49.80
995
3.00
105 F

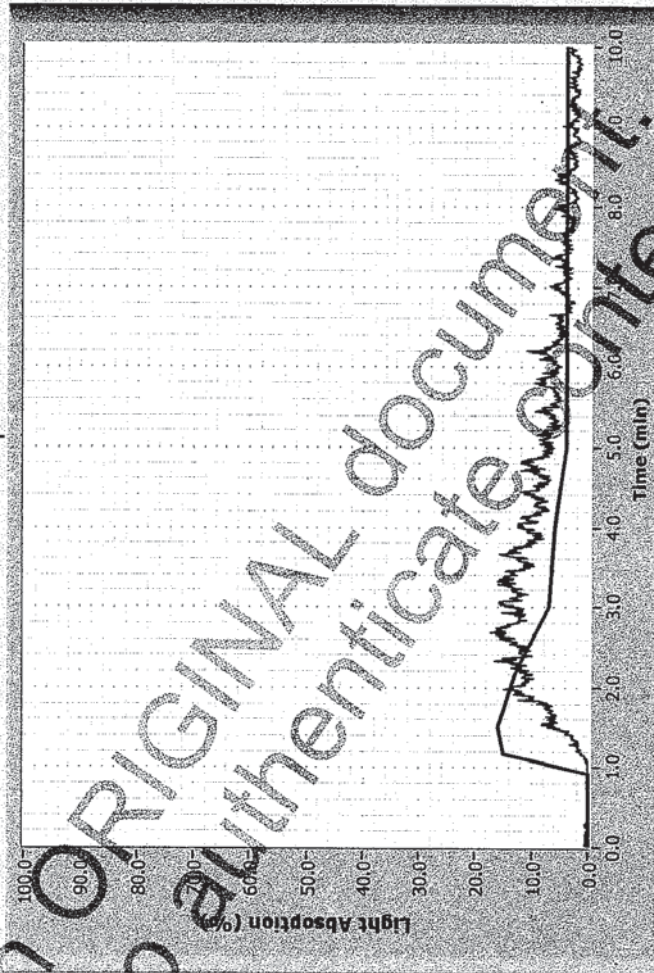
Flame Spread: 46.35
Area under Flame Curve (ft-min): 89.99

Smoke Developed: 119.98
Area under Smoke Curve (%A-min): 61.19

Flame Spread



Smoke Developed



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TEST #: FH-2332-5

DATE: 9/21/2012

TEST METHOD: ASTM-E84-11a

CLIENT: Proflex Products, Inc.

PROJECT#: H-915

SAMPLE: Sample No. 3

MATERIAL: (6) 2' x 4' Panels

SUPPORT: Wire & Rods

REMARKS:

Ignition Time: 0:38

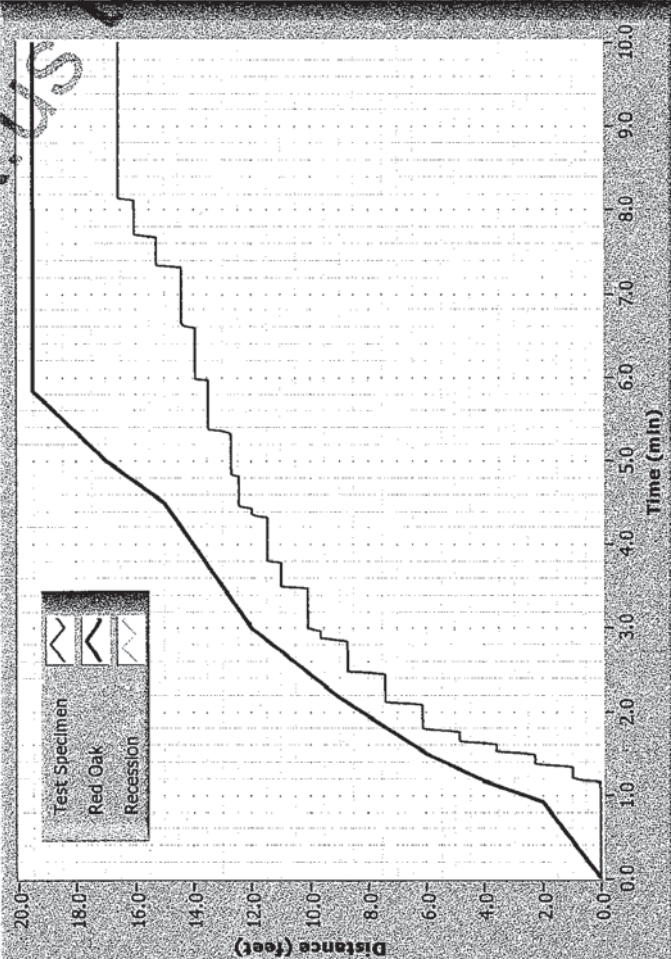
Max Flame Front: 16.57 FT. @ 9:15

0.080
0.296
50.45
1000
3.00
105 F

Flame Spread: 57.26
Area under Flame Curve (ft-min): 109.43

Smoke Developed: 132.14
Area under Smoke Curve (%A-min): 67.39

Flame Spread



Smoke Developed

