



Fire Testing Laboratory



TEST REPORT for

Crane Composites, Inc

8015 Dixon Drive
Florence, KY 41042

Surface Burning Characteristics of Building Materials

ASTM E-84-08


Test Report No: FH-1907-1

Assignment No: H-587

Test Date: 2/26/2009

Report Date: 10/13/2009

Subject Material: 0.12" FTSTF FRP Panels

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and Testing Services

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MATERIAL TESTED:

Material submitted by Crane Composites, Inc., Florence, KY was identified and described by the client as:

FRP Panels:

0.120 in. thick FTSTF

The material was provided 24 in. wide x 8 ft.. lengths.

The tests were conducted by placing the material in the furnace end to end, and butted tightly together to achieve the required 24 lineal feet.

METHOD OF SUPPORT:

A continuous length of 2.0 in. hexagonal poultry netting was placed atop 1/4" dia. steel rods spaced 24 in. on center. The test samples were placed over the netting, end to end, and butted tightly together to achieve the required 24 lineal feet

LID PROTECTION:

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

RESULTS:

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

RESULTS:

<u>TEST NO.</u>	<u>MATERIAL TESTED</u>	<u>SIDE EXPOSED</u>	<u>SUPPORT</u>	<u>CALCULATED FLAME SPREAD</u>	<u>CALCULATED SMOKE DEVELOPED</u>
1	0.120 in. FTSTF FRP	SYMMETRICAL	WIRE & RODS	116.78	471.70

<u>MATERIAL TESTED</u>	<u>SIDE EXPOSED</u>	<u>SUPPORT</u>	<u>FLAME SPREAD INDEX*</u>	<u>SMOKE DEVELOPED INDEX*</u>
RED OAK FLOORING	FINISH	DECKS	100	100
REINFORCED CEMENT BOARD	SYMMETRICAL	SELF	0	0
0.120 in. FTSTF FRP	SYMMETRICAL	WIRE & RODS	115	450

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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DATE: 2/26/2009
 TEST #: FH-1907-1

TEST METHOD: ASTM E-84-08

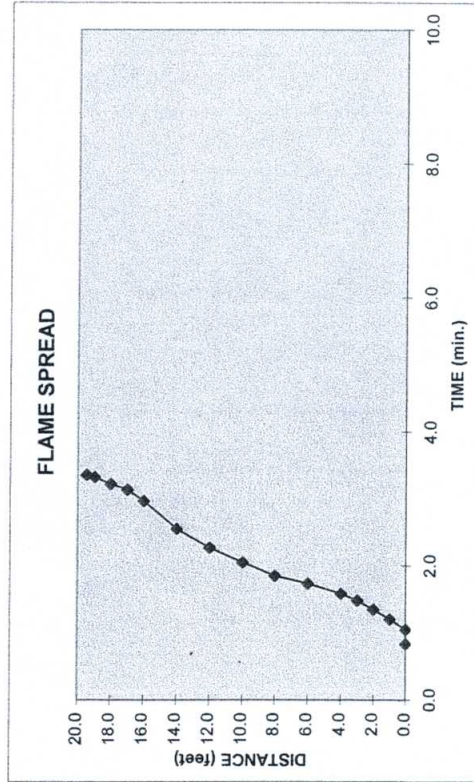
CLIENT: CRANE COMPOSITES

PROJECT #: H-587
 SAMPLE: FRP
 MATERIAL: 0.12" FTSTF
 METHOD OF SUPPORT: RODS & WIRE
 REMARKS: IGNITION :50
 MAX. FLAME FRONT 19.5 FT. @ 3:21

ADC DRAFT (IN. H2O) 0.082
 GAS PRESS. (IN. H2O) 0.289
 GAS VOL. (CF) 49.92
 BTU/cf 1002
 SHUTTER 3"
 TEMP. 13' BURIED 105 °F



FLAME SPREAD- 116.78
AREA UNDER THE CURVE (min.-ft.) 153.04
SMOKE DEVELOPED- 471.70



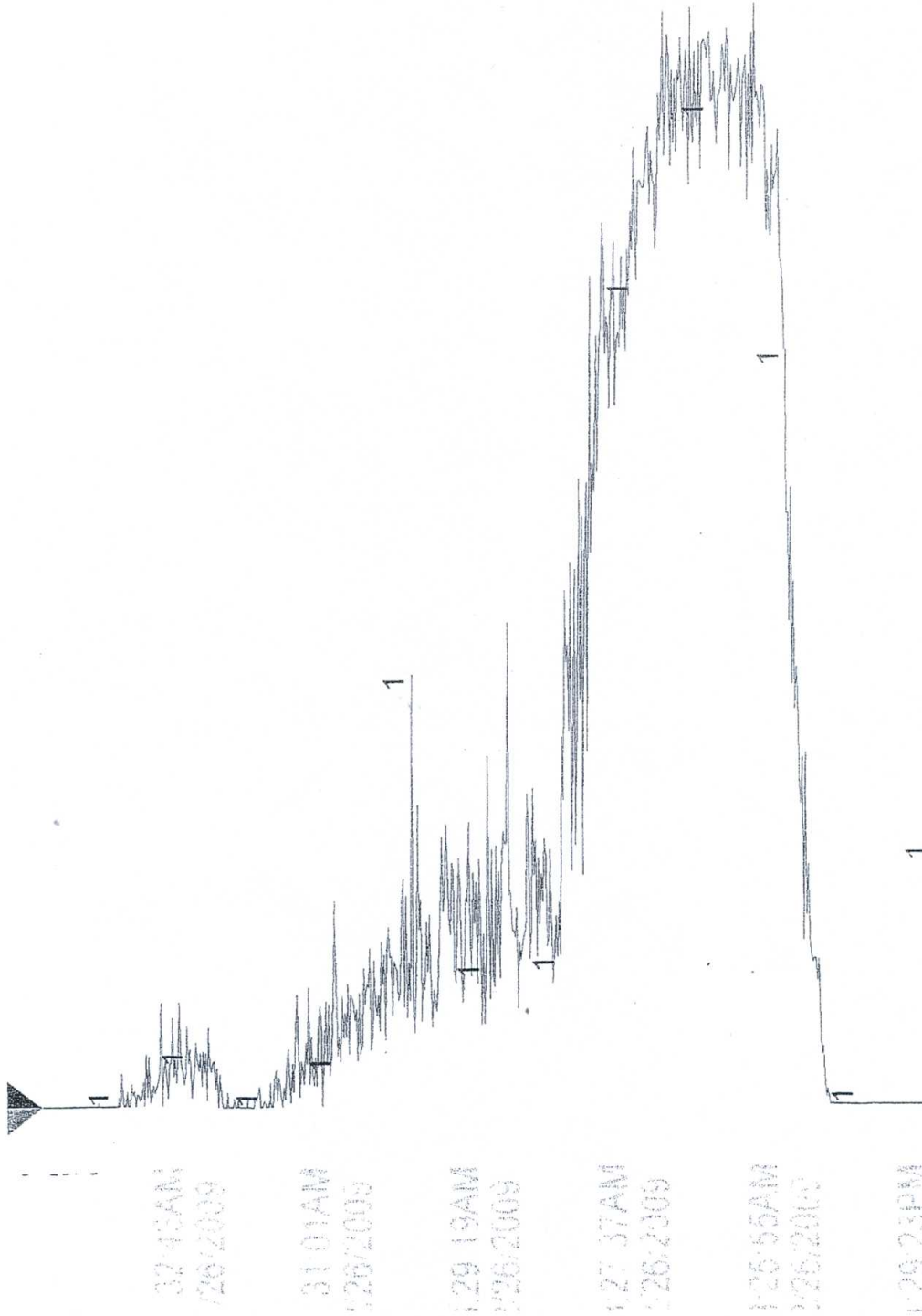
#	TIME (Min.)	TIME (Sec.)	DISTANCE (Ft.)
1	0	50	0.0
2	1	3	0.0
3	1	12	1.0
4	1	21	2.0
5	1	29	3.0
6	1	35	4.0
7	1	44	6.0
8	1	51	8.0
9	2	3	10.0
10	2	16	12.0
11	2	33	14.0
12	2	58	16.0
13	3	8	17.0
14	3	13	18.0
15	3	19	19.0
16	3	21	19.5
17			
18			
19			
20			

WITNESSED BY: *[Signature]*

E-MAIL: ngctest@ngctestingservices.com

1650 MILITARY ROAD, BUFFALO, 14217 TEL 716-873-9750 FAX 716-873-9753

INPUTOV Analog In 1



12:43AM
2/26/2009

1:01AM
2/26/2009

1:19AM
2/26/2009

1:37AM
2/26/2009

1:55AM
2/26/2009

1:23PM
2/26/2009

FACE TAG	UNITS	DESCRIPTOR	HI-LIM	LO-LIM
INPUTOV	MV	Analog In 1	10.000	0.0000

MV

10.000

2:42:43AM 2/26/2009

FH-1907-1
 CRANE COMPOSITES
 .012" FTS TF
 FRP
 WIRE & RODS

8.16E8,01

A = 7.55 m²

SD = 471.70

1:29:23PM 2/26/2009