TEST REPORT

for

IMT Modular Partitions, LTD

80 Clayson Road
Toronto, ON M9M 2G7
Canada

Surface Burning Characteristics of Building Materials

ASTM E-84-10

Test Report No: FH-2074

Assignment No: G-593

Test Date: 5/6/2010

Report Date: 5/12/2010

Subject Material: IMT Wall System

Prepared by: _____

Richard A. Costolnick
Senior Test Engineer

Reviewed by: _____

Robert J. Menchetti
Director, Laboratory Facilities
and Testing Services

MATERIAL TESTED:

Material submitted by IMT Modular Partitions, Ltd., Toronto, Canada, was identified and described by the client as:

IMT WALL SYSTEM

1. **Steel framing with 5/8" particle board with woodgrain facing and 2.0 in. thick Roxul mineral wool insulation core.**

2. **Steel framing with 5/8" MDF with white facing and 2.0 in. thick Roxul mineral wool insulation core.**

The material was provided as 24" wide x 8 ft. long panels.

METHOD OF SUPPORT:

Three (3) panels of each system were placed end to end, butted tightly together to achieve the required 24 lineal feet for each test. The panels were self supporting in the test chamber.

LID PROTECTION:

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

RESULTS:

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

RESULTS:

TEST NO.	MATERIAL TESTED	SUPPORT	SIDE EXPOSED	CALCULATED FLAME SPREAD	CALCULATED SMOKE DEVELOPED
1	**IMT WALL SYSTEM** **5/8" PARTICLE BOARD w/ WOOD GRAIN LAMINATE** **STEEL FRAME w/ 2" ROXUL MW CORE**	SELF	SYMMETRICAL	85.75	160.64
2	**IMT WALL SYSTEM** **5/8" MDF w/ WHITE LAMINATE** **STEEL FRAME w/ 2" ROXUL MW CORE**	SELF	SYMMETRICAL	29.34	105.61

MATERIAL TESTED	SUPPORT	EXPOSED	FLAME SPREAD INDEX*	SMOKE DEVELOPED INDEX*
RED OAK FLOORING (calib.)	DECKS	NA	100	0
REINFORCED CEMENT BOARD (calib.)	SELF	NA	0	0
IMT WALL SYSTEM **5/8" PARTICLE BOARD w/ WOOD GRAIN LAMINATE** **STEEL FRAME w/ 2" ROXUL MW CORE**	SELF	SYMMETRICAL	**85**	**160**
IMT WALL SYSTEM **5/8" MDF w/ WHITE LAMINATE** **STEEL FRAME w/ 2" ROXUL MW CORE**	SELF	SYMMETRICAL	**30**	**105**

CLASS	FSI	SDI
A	25 OR LESS	450 or less
B	26-75	450 or less
C	76-200	450 or less

* Flame Spread Index and Smoke Developed Index is the calculated result rounded to the nearest 5. Smoke Developed in excess of 200, rounded to the nearest 50.

Fire Testing Laboratory

DATE 5/6/2010

TEST #: FH-2074-1

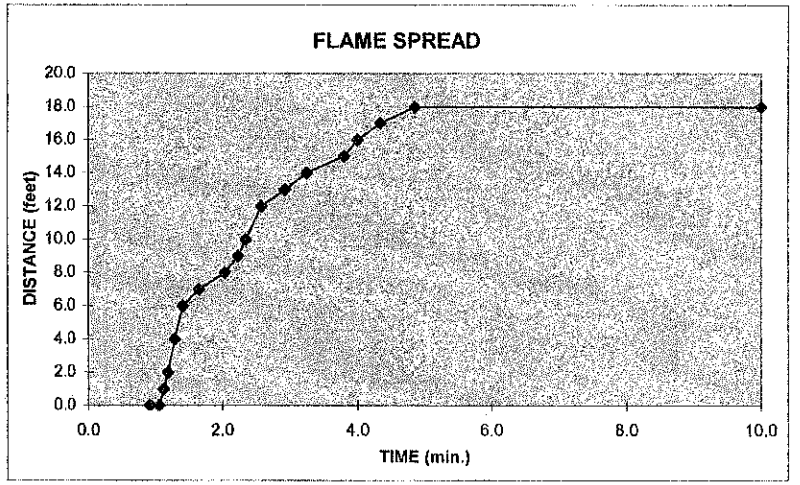
TEST METHOD: ASTM E-84-10

CLIENT: IMT MODULAR PARTITIONS

PROJECT #: G-593
SAMPLE: IMT WALL SYSTEM
5/8" PARTICLE BOARD -WOOD GRAIN LAMINATE
STEEL FRAME w/ 2" ROXUL MW INSULATION CORE
METHOD OF SUPPORT: SELF
REMARKS: IGNITION 0:55
MAX. FLAME FRONT 18.0 FT. @ 4:51

ADC DRAFT (IN. H20)	0.078
GAS PRESS. (IN. H20)	0.291
GAS VOL, (CF)	50.08
BTU/cf	1008
SHUTTER	3"
TEMP. 13' BURIED	105°F

FLAME SPREAD-	**85.75**
AREA UNDER THE CURVE (min.-ft.)	137.86
SMOKE DEVELOPED-	**160.64**



#	TIME (Min.)	TIME (Sec.)	DISTANCE (Ft.)
1	0	55	0.0
2	1	3	0.0
3	1	7	1.0
4	1	11	2.0
5	1	17	4.0
6	1	24	6.0
7	1	39	7.0
8	2	2	8.0
9	2	14	9.0
10	2	21	10.0
11	2	35	12.0
12	2	56	13.0
13	3	15	14.0
14	3	48	15.0
15	4	0	16.0
16	4	20	17.0
17	4	51	18.0
18	10	0	18.0
19			
20			

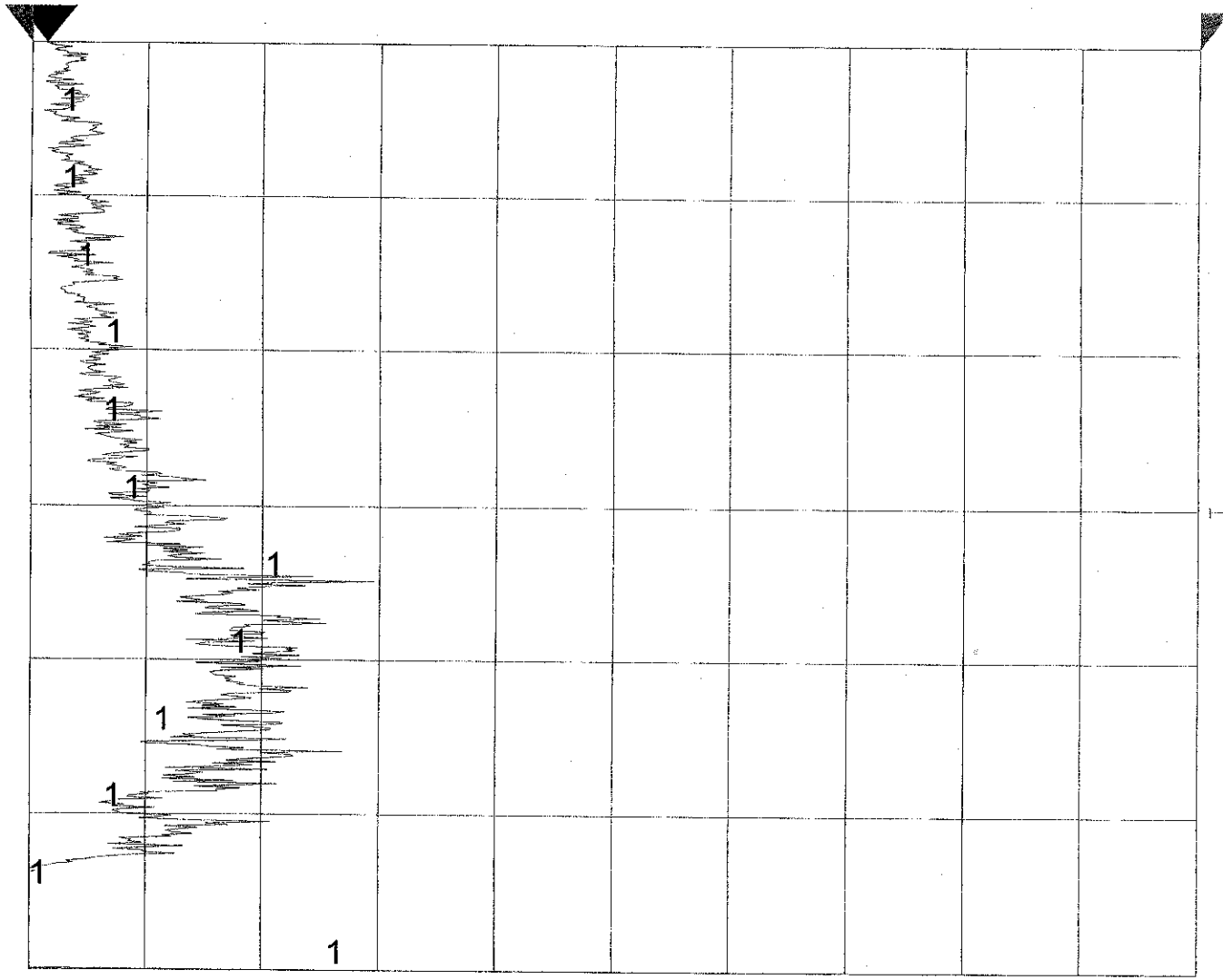
WITNESSED BY:

1650 MILITARY ROAD, BUFFALO, 14217 TEL 716-873-9750 FAX 716-873-9753 E-MAIL ngctest@ngctestingservices.com

T 1 INPUTOV

Analog In 1

MV



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

Fire Testing Laboratory

DATE 5/6/2010

TEST #: FH-2074-2

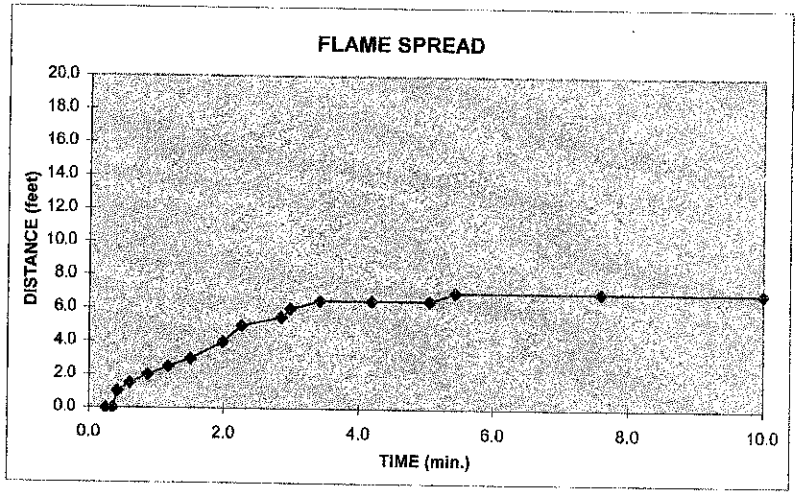
TEST METHOD: ASTM E-84-10

CLIENT: IMT MODULAR PARTITIONS

PROJECT #: G-593
SAMPLE: IMT WALL SYSTEM
5/8" MDF FIRE RATED -WHITE LAMINATE
STEEL FRAME w/ 2" ROXUL MW INSULATION CORE
METHOD OF SUPPORT: SELF
REMARKS: IGNITION 0:15
MAX. FLAME FRONT 7.0 FT. @ 5:26

ADC DRAFT (IN. H20)	0.078
GAS PRESS. (IN. H20)	0.292
GAS VOL, (CF)	50.05
BTU/cf	1008
SHUTTER	3"
TEMP. 13' BURIED	105°F

FLAME SPREAD-	**29.34**
AREA UNDER THE CURVE (min.-ft.)	56.98
SMOKE DEVELOPED-	**105.61**



#	TIME (Min.)	TIME (Sec.)	DISTANCE (Ft.)
1	0	15	0.0
2	0	21	0.0
3	0	25	1.0
4	0	36	1.5
5	0	52	2.0
6	1	10	2.5
7	1	30	3.0
8	1	59	4.0
9	2	16	5.0
10	2	52	5.5
11	3	0	6.0
12	3	26	6.5
13	4	11	6.5
14	5	3	6.5
15	5	26	7.0
16	7	36	7.0
17	10	0	7.0
18			
19			
20			

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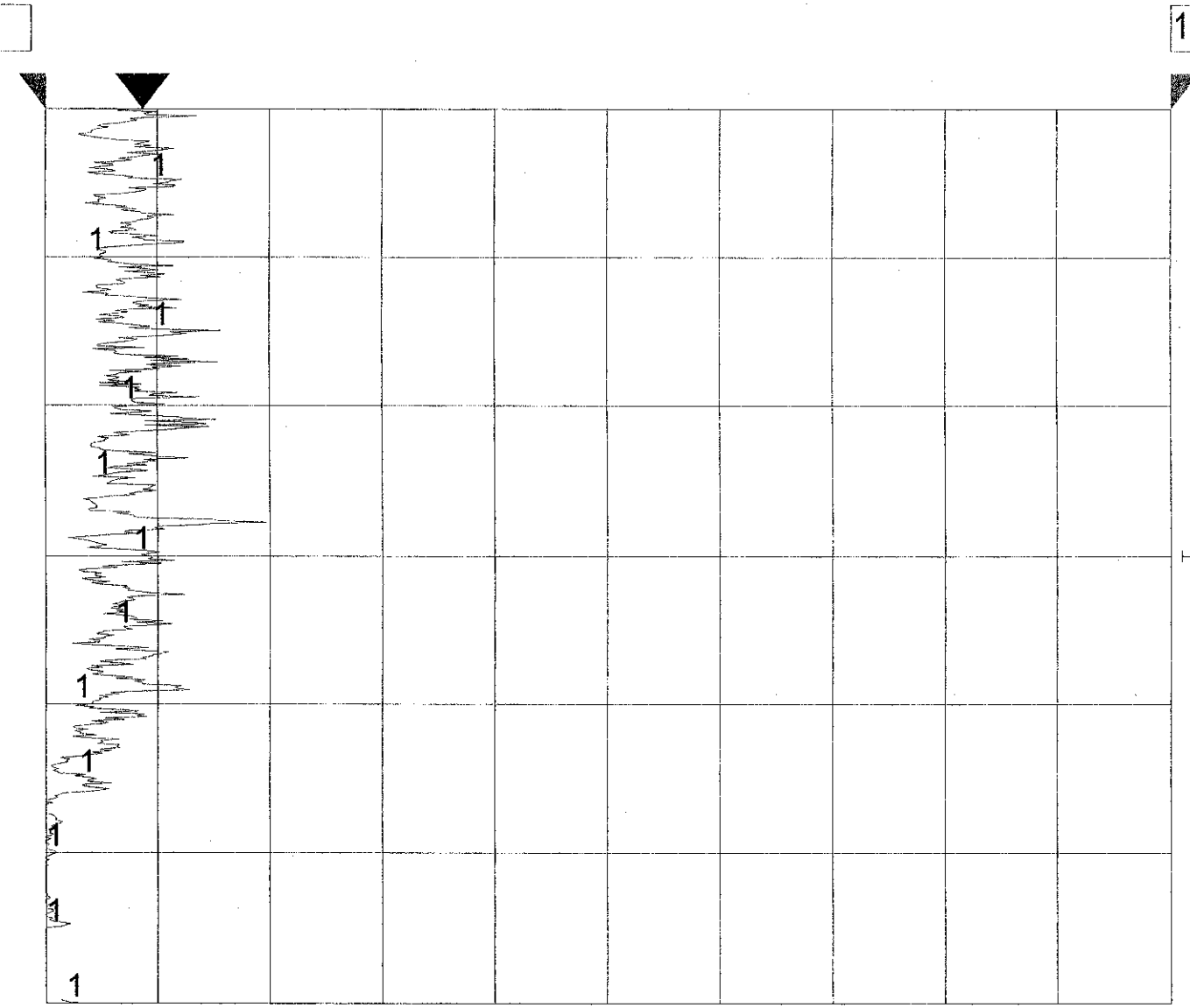
E-MAIL ngctest@ngctestingservices.com

T 1 INPUTOV Analog In 1 MV



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