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Received:09/1	4/2017 Completed: 09/18/2017	Letter: M	RM P.O. #:	Test Report #:	3-21212-0-DU
Client's Identification	l .	Panels. [Client adv	vises product was adhered to sta	ndard 5/8" thick Type 2	〈 Gypsum].
Tested For:			Key Test: AS	ΓM E 84 (Int Fin)	638
	MEAMEA		m 1	1	. .
	75 Avenue de la Capelado		Tel:		Ext:
	Castries, France 34160		Fax:		
PC: ME	/dl/ _I	op SM/mg): LE 2015; V 7/17; AS		
TEST PERFOI Materials	RMED: ASTM E84 - Standaı	d Test Method	for Surface Burning Cha	racteristics of Bu	ilding
REFERENCE: Materials	Comparable to: UL 723	- Standard for	Test for Surface Burnin	g Characteristics	of Building
APPROXIMATI	THICKNESS OF SPECIMEN	(as measured b	y Govmark): 2.1"		
SPECIMEN W	EIGHT (to include subst	cate when appli	cable):		
Prior to	Conditioning:		78.5 lbs.		
Stabili	zed Weight (taken twice	within 24 hour	s): 78.5 lbs.		
PRODUCT CA	TEGORY:				
[] Text	tile Type Product				
[] Vin	yl Type Product				
[x] Oth	er than Textile Type or	Vinyl Type Pro	oduct: See "Client's Ide	ntification" abov	е
material wapparatus apparatus and continuous special toward two and comment between test. The apparatus smoke deve	nder defined test condi- and is often referred to to the 24 ft. mark in 5 men rests horizontally : upward oriented burners bard placed on the backs near face of the specimes. The time and distance	tions. The test o as the "tunne .5 minutes ± 15 in a ceiling co s. A furnace li side of each sp en is subjected e of the spread otometric syste	ased to determine the rest is performed in a 25 fel test". The test contest seconds. During the aconfiguration inside the detailed that rests in a water decimen assembly protected to a 4.5 ft. flame inside the lem are all recorded. The	t. long tunnel/du implates a calibra stual test, a 24 f test chamber faci trough seals the sthe furnace lid sult of approximat agth of the specim	ct-like tion where Red t. long x 23" ng downward and chamber tight. during the ely 88 kW for hen and the
		See Page 3	3 for "Results"		
		(Page	e 1 of 4)		



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Received:09/14/2017 Completed:09/18/20)17 Letter: M I	RM P.O.#:	Test Report #:	3-21212-0-DU
Client's Preserved Moss on Alumini	um Panels. [Client advi	ises product was adhered to stand	lard 5/8" thick Type	X Gypsum].
Tested For:	<u> </u>	Key Test: ASTN	ME 84 (Int Fin)	638
MEAMEA 175 Avenue de la Capelado		Tel:		Ext:
Castries, France 34160		Fax:		Ext.
	· ***			
SPECIMEN MOUNTING:				
[x] Self-supporting: The test placed into test position			oporting when	
[] Adhered to IRC: The test Cement (IRC) boards.	specimen was bond	ded to 1/4" Inorganic Re	inforced	
[] Adhered to Gypsum: The te	est specimen was a	adhered to 5/8" thick Typ	oe X gypsum	
[] Unadhered: The specimen over a 2" hexagonal wire			d, it was laid	
[] Other:				
SPECIMEN LENGTH: The 24 ft. leng	jth was comprised	of:		
		vely joined		
ADHESIVE (applied by Govmark):	[x] No [] Yes - (specify	y):		
DBSERVATIONS: [x] No unusual obs [] Burning Drips [] Delamination [] Sagging [] Shrinkage [] Fallout (speci	to Floor imen displacement	from ceiling mount)		
REMARKS: [x] None [] Other:				
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Received:09/	14/2017 Comp	leted:09/18/2017 L	etter: M RM	P.O.#:	Test Report #	: 3-21212-0-DU
Client's Identificatio		oss on Aluminum Par	nels. [Client advises p	roduct was adhered to	standard 5/8" thick T	[ype X Gypsum].
Fested For:	<u> </u>			Key Test:	ASTM E 84 (Int Fin)	638
	MEAMEA 175 Avenue de Castries, France			Tel: Fax:		Ext:
RESULTS:						
	Spread Index Developed:	: 0				
ROUNDING:			has been rounded been rounded to		multiple of 5.	
	Raw Data	Rounde	đ			
	Less than 200 or mor		t multiple of 5 t multiple of 50			
[] Clā	ass II or B ass III or C ils to achie	-	assification the	reby rendering t	he product	
uns [] Bas mat * Severe n	sed on produ cerial. melt, drip,	delamination or	equirement , ASTM E84 is no	t a suitable tes that destroys t	t method for the	the flame front
uns [] Bas mat * Severe n	sed on produ terial. nelt, drip, a valid fla	ct performance*	equirement , ASTM E84 is no other behaviour	t a suitable tes that destroys t	t method for the	
uns [] Bas mat * Severe n such that DATA SUMMA Time to Maximum	sed on producerial. melt, drip, a valid fla ARY: Displaying the spread of the spread	ct performance*	equirement , ASTM E84 is no other behaviour obtainable (See onds): 00:16 feet): 0	t a suitable tes that destroys t	t method for the	
uns [] Bas mat * Severe n such that DATA SUMMA Time to Maximum Maximum	sed on producerial. melt, drip, a valid fla ARY: Dignition n Flame Spre	ct performance* delamination or me spread is und (minutes:second "Distance" (second "Time" (second)	equirement , ASTM E84 is no other behaviour obtainable (See onds): 00:16 feet): 0	t a suitable tes that destroys t "Remarks" on Pag	t method for the	
uns [] Bas mat * Severe n such that DATA SUMMA Time to Maximum Maximum	sed on producerial. melt, drip, a valid fla ARY: Dignition n Flame Spre n Flame Spre	ct performance* delamination or me spread is und (minutes:second "Distance" () ad "Time" (second "STEM (Please so	equirement , ASTM E84 is no other behaviour obtainable (See onds): 00:16 feet): 0 onds): 0 ee "ASTM E84 Lim ex Smoke Dev	t a suitable tes that destroys t "Remarks" on Pag itations on Page	t method for the	
uns [] Bas mat * Severe m such that DATA SUMMA Time to Maximum Maximum CODE CLASS Class 1	sed on producerial. melt, drip, a valid fla ARY: Dignition n Flame Spre n Flame Spre	ct performance* delamination or me spread is und (minutes:second "Distance" (second "Time" (s	equirement , ASTM E84 is no other behaviour obtainable (See onds): 00:16 feet): 0 onds): 0 ee "ASTM E84 Lim ex Smoke Dev	t a suitable tes that destroys t "Remarks" on Page itations on Page eloped ss	t method for the	
uns [] Bas mat * Severe m such that DATA SUMMA Time to Maximum Maximum CODE CLASS Class 1	sed on producterial. melt, drip, a valid fla ARY: Dignition In Flame Spre In Flame Spre In Or A: II or B: 2 III or C: 7	delamination or me spread is und (minutes:second "Distance" (ad "Time" (second "Time" (second "Time") (second "Time") (second "Time") (second Time") (second Time") (second Time Spread Time) (second	equirement , ASTM E84 is no other behaviour obtainable (See onds): 00:16 feet): 0 onds): 0 ee "ASTM E84 Lim ex Smoke Dev	t a suitable tes that destroys t "Remarks" on Page itations on Page eloped ss ss ss	t method for the he continuity of e 2 of 4.)	the flame front



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Received:09/1	4/2017 Completed: 09/18/2017	Letter: M	RM	P.O.#:	Test Report #:	3-21212-0-DU
Client's Identification	Preserved Moss on Aluminum I	Panels. [Client ad	vises	product was adhered to stand	lard 5/8" thick Type	X Gypsum].
Tested For:				Key Test: ASTN	ME 84 (Int Fin)	638
1	MEAMEA					
	175 Avenue de la Capelado			Tel:		Ext:
(Castries, France 34160			Fax:		

BUILDING CODE CITATION FOR THE CLASSIFICATION SCHEME:

- (1) 2015 edition, NFPA 101 Life Safety Code, para. 10.2.3.4
- (2) 2015 edition, NFPA 5000 Building Construction & Safety Code, para. 10.4.2
- (3) 2015 edition, International Building Code, para. 803.1.1

LIMITATIONS OF THE ASTM E84 CLASSIFICATION SCHEME: Most building codes will accept the ASTM E84 classifications when the interior finish product is used in a sprinklered area. Certain local authorities such as NYC have more stringent requirements, i.e. Smoke Developed ranges from a maximum 25 to 100.

If the interior finish product is a textile or vinyl wall covering used in a non-sprinklered area, the NFPA 265 room corner fire test applies.

Certain products which give off excessive heat such as but not limited to cellular plastics, cellular foam (either with or without coverings as applicable), polypropylene, and high density polyethylene should be tested by NFPA 286 - Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth. In Govmark's opinion, the codes require NFPA 286 for such products, even in sprinklered areas.

CERTIFICATION: I certify that the reported results were obtained after testing specimens in accordance with the procedures and equipment specified above.

AUTHORIZED SIGNATURE

GOVMARK SIGNA

/pm

Enclosure: Graphs

Douglas W. Lipp

DU.11.01.17 /tm

Test Engineer: Rick McDonough

ARCHITE-CT/MEAM-FR/ARCHITE-CT

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M

NOV 0 2 2017



1 Fire & Flammability Testing

Program: ASTM E84 (Version 1.40)

 Test Method
 : ASTM E84

 Test Report #
 : 3-21212-0-DU

 Date
 : 9/18/2017

 Client
 : MEAMEA

Operator : Rick McDonough

Details of Preparation : Self supporting specimen. 24 ft length comprised of six 4 ft

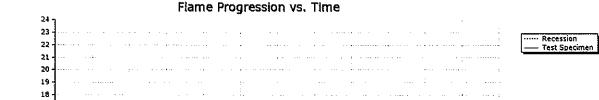
sections butted end to end.

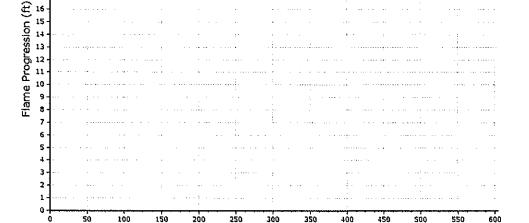
Observations : No unusual observations.

Area Under Flame Curve (ft min) : 0.08
Raw Flame Spread Index (ft min) : 0.04
Rounded Flame Spread Index (ft min) : 0

Ignition Time : 00:16 mm:ss

Area Under Smoke Curve (%A min) : 1.70
Raw Smoke-Developed Index : 2.41
Rounded Smoke-Developed Index : 0
Total Gas Flow(L) : 1405.9
Total Gas Flow(ft³) : 49.7
Maximum Flame Front Achieved(ft) : 0 (@0s)





Time (seconds)



10 Fire & Flammability Testing

Program: ASTM E84 (Version 1.40)



