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Received: 04/04/2019 Completed: 04/10/2019 L	Letter: H JR	P.O.#:	Test Report #:	3-31796-0-	
Client's Bodag Architectural Vinyl Film. Pattern: NS706 ("Terrazzo"). Composition: Textured & laminated PVC film with clear top layer, printed pattern layer, adhesive layer (see continuation)					
Tested For: Gordon Lewandowski Nelcos US LLC 22525 64th Place, Suite 2U Issaquah, WA 98027		Tel: 1	-(425)-785-8160 -()	765 Ext:	
CLIENT'S IDENTIFICATION (continuation And backing paper. Product End Use: ceilings, cabinets, furniture, and continuation and	Material is dry			esive to walls,	
Additional Information: This material is meant for application indoor, not outdoor application. Note that even though there is an arrow indicating "up" on each sample supplied, effectively there is no "top and bottom" to the film. Test Category: Tunnel Test Specifier: BLDG(IBC): LE 2018; V 9/18; ASTM E 84: LE 2018b; V 01/19 PC: ME /dl/pp SM/mg					
TEST PERFORMED: ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials					
REFERENCE: Comparable to: UL 723 - S Materials	tandard for Tes	t for Surface Burn	ing Characteristics	of Building	
APPROXIMATE THICKNESS OF SPECIMEN (as measured by SGS Govmark): 0.01"					
SPECIMEN WEIGHT (to include substrat	e when applicab	le):			
Prior to Conditioning:		91.5 lbs.			
Stabilized Weight (taken twice wi	thin 24 hours):	91.5 lbs.			
PRODUCT CATEGORY:					
[] Textile Type Product					
[x] Vinyl Type Product					
[] Other than Textile Type or Vi	nyl Type Produc	t:			
BRIEF DESCRIPTION OF TEST: This test method is used to determine the relative burning behavior of a material under defined test conditions. The test is performed in a 25 ft. long tunnel/duct-like apparatus and is often referred to as the "tunnel test". The test contemplates a calibration where Red Oak burns to the 24 ft. mark in 5.5 minutes ± 15 seconds. During the actual test, a 24 ft. long x 23" wide specimen rests horizontally in a ceiling configuration inside the test chamber facing downward and toward two upward oriented burners. A furnace lid that rests in a water trough seals the chamber tight. A cement board placed on the backside of each specimen assembly protects the furnace lid during the test. The near face of the specimen is subjected to a 4.5 ft. flame insult of approximately 88 kW for ten minutes. The time and distance of the spread of flame along the length of the specimen and the smoke developed as read by the photometric system are all recorded. The Flame Spread and Smoke Developed are reported as an Index.					
See Page 3 for "Results"					
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Received: 04/04/2019 Completed: 04/10/2019 Letter: H	JR P.O. #:	Test Report #:	3-31796-0-
Client's Bodag Architectural Vinyl Film. Pattern: N top layer, printed pattern layer, adhesive lay	S706 ("Terrazzo"). Comyer (see continuation)	position: Textured & laminated I	PVC film with clear
Tested For: Gordon Lewandowski	К	ey Test: ASTM E 84 (Int Fin)	765
Nelcos US LLC 22525 64th Place, Suite 2U Issaquah, WA 98027		Tel: 1-(425)-785-8160 Fax: 1-()	Ext:
SPECIMEN MOUNTING:			
[] Self-supporting: The test specimen war placed into test position. No addition			
[x] Adhered to IRC: The test specimen was Cement (IRC) boards.	s bonded to 1/4" In	norganic Reinforced	
[] Adhered to Gypsum: The test specimen board.	was adhered to 5/8	3" thick Type X gypsum	
[] Unadhered: The specimen was not adhe over a 2" hexagonal wire mesh screen	_	ate. Instead, it was laid	Ĺ.
[x] Other: Self stick adhesive to IRC bo	pard.		
SPECIMEN LENGTH: The 24 ft. length was compr	rised of:		
[] Continuous unbroken 24 ft. length [x] Sections: [x] Three 8 ft. sections bu [] Three 8 ft. sections po [] Other:			
ADHESIVE (applied by SGS Govmark): [x] No [] Yes -	- (specify):		
OBSERVATIONS:			
<pre>[x] No unusual observations [] Burning Drips to Floor further qualifie [] Delamination [] Sagging [] Shrinkage [] Fallout (specimen displacement from cei [] Other:</pre>		[] Moderate; [] Major	
REMARKS: [x] None [] Other:			
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Received: 04/04/2019 Completed: 04/10/2019 Letter:	H JR	P.O.#:	Test Report #:	3-31796-0-
Client's Bodag Architectural Vinyl Film. Pattern Identification top layer, printed pattern layer, adhesive	: NS706 ("Te	rrazzo"). Compositi	on: Textured & laminated PV	C film with clear
Tested For: Gordon Lewandowski	najer (see ee		st: ASTM E 84 (Int Fin)	765
Nelcos US LLC 22525 64th Place, Suite 2U Issaquah, WA 98027			el: 1-(425)-785-8160 x: 1-()	Ext:
RESULTS:				
Flame Spread Index: 10 Smoke Developed: 100				
ROUNDING (Per ASTM E84 Reporting Requirem	ents):			
Flame Spread Index value has b Smoke Developed value has been			t multiple of 5.	
Raw Data Rounded				
Less than 200 Nearest mul 200 or more Nearest mul	tiple of	5		
CONCLUSION: Based on the reported Results assigned a:	and cited	Code Classific	ation System, the item	ı tested is
 [x] Class I or A rating [] Class II or B rating [] Class III or C rating [] Fails to achieve a minimum classif unsuitable in terms of code requir [] Based on product performance*, AST material. 	ement			
* Severe melt, drip, delamination or othe such that a valid flame spread is unobtain	r behaviou nable (See	r that destroys "Remarks" on F	the continuity of the age 2 of 4.)	: flame front
DATA SUMMARY:				
Time to Ignition (minutes:seconds) Maximum Flame Spread "Distance" (feet) Maximum Flame Spread "Time" (seconds)	: 2.5			
CODE CLASSIFICATION SYSTEM (Please see "A	STM E84 Li	mitations" on P	age 4):	
Flame Spread Index				
	450 or 1 450 or 1	ess		
See Page 4 for "Building Co	de Citatio	n for The Class	ification Scheme"	
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Identification top layer, printed pattern layer, adhesive layer (see continuation)						
Tested For: (Gordon Lewandowski			Key Test: A	STM E 84 (Int Fin)	765
1	Nelcos US LLC					
2	2525 64th Place, Suite 2U			Tel: 1	-(425)-785-8160	Ext:
I	ssaquah, WA 98027			Fax: 1	-()	

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) 2018 edition, International Building Code, para. 803.1.2

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 SGS 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.

Phyllis Pettit

AUTHORIZED SIGNATURE

SGS GOVMARK /jab /pm

Enclosure: Graphs

APR 1 7 2019

Test Engineer: Jimmy Rosinsky ()

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Program: ASTM E84 (Version 1.61)

Test Method Test Report #

Date Client

Operator

Details of Preparation

Observations

: ASTM E84

: 3-31796-0-H : 4/10/2019

: Nelco US LLC : Jimmy Rosinsky

: The self stick adhesive was applied to 1/4" Inorganic

Reinforced Cement (IRC) boards. The 24 ft specimen was

comprised of three 8 ft sections butted end to end.

: No unusual observations

Area Under Flame Curve (ft min) : 23.70
Raw Flame Spread Index (ft min) : 12.21
Rounded Flame Spread Index (ft min) : 10

Ignition Time

Area Under Smoke Curve (%A min) Raw Smoke-Developed Index

Rounded Smoke-Developed Index Total Gas Flow(L)

Total Gas Flow(ft³)

Maximum Flame Front Achieved(ft)

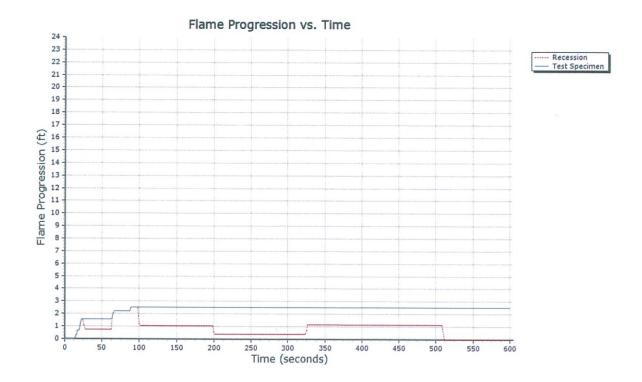
10

: **00:12 mm:ss** : 118.79

: 99.45 : **100**

: 1330.8 : 47

: 2.5 (@89s)





Program: ASTM E84 (Version 1.61)

Test Method Test Report #

: ASTM E84 : 3-31796-0-H

