

					-					
Received: 04/	04/2019 Completed: 04/		JR	P.O.#:				Test Report #:	3-31796-0-	
Client's Identification	Bodag Architectural V n top layer, printed patte	inyl Film. Pattern: NS706 rn layer, adhesive layer (s	("Tei ee coi	rrazzo"). Comp ntinuation)	osition	: Te	xtur	ed & laminated P	VC film with clear	
Tested For:	Gordon Lewandowsk Nelcos US LLC	i		Ke	y Test:	AS	TM	E 84 (Int Fin)	765	
	22525 64th Place, Suite 2	2U			Tel:	1-(425`)-785-8160	Ext:	
	Issaquah, WA 98027				Fax:				2	
And backing		tinuation): nd Use: Material is e, and other flat co							dhesive to walls,	
that even "top and h	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 C: ME /dl/pp SM/mg									
TEST PERFO	TEST PERFORMED: ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials									
REFERENCE: Materials	REFERENCE: Comparable to: UL 723 - Standard for Test for Surface Burning Characteristics of Building Materials									
APPROXIMAT	E THICKNESS OF SPE	CIMEN (as measured)	by SC	GS Govmark):	0.01	. 11				
SPECIMEN W	EIGHT (to include a	substrate when appl:	icabl	le):						
Prior t	o Conditioning:			91.5 lbs.						
Stabili	zed Weight (taken t	twice within 24 hour	rs):	91.5 lbs.						
PRODUCT CA	TEGORY:									
[] Tex	tile Type Product									
[x] Vin	yl Type Product									
[] Oth	er than Textile Typ	oe or Vinyl Type Pro	oduct	i:						
material u apparatus Oak burns wide speci toward two A cement b test. The ten minute smoke deve	nder defined test of and is often refers to the 24 ft. mark men rests horizontal upward oriented by oard placed on the near face of the sps. The time and dis	conditions. The test med to as the "tunner in 5.5 minutes ± 1! ally in a ceiling coursers. A furnace 1: backside of each specimen is subjected that the spread are photometric system.	e is sell to sell to to did to	performed in est". The test conds. During guration instruction in the condition of the cond	n a 2 est cong the side to a war protestame g the	25 fonte e ac the ater tect ins	empletua tes tes tr sult	long tunnel/clates a calibral test, a 24 st chamber factough seals the furnace life of approximation of the special control to the specia	duct-like ration where Red ft. long x 23" ring downward and ne chamber tight. Id during the ately 88 kW for imen and the	
		See Page 3 for	: "Re	esults"						
		(Page 1	of 4	1)						



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: NS706 top layer, printed pattern layer, adhesive layer (s	6 ("Terrazzo"). Composition see continuation)	: Textured & laminated P	VC film with clear
Tested For: Gordon Lewandowski	Key Test	: ASTM E 84 (Int Fin)	765
Nelcos US LLC 22525 64th Place, Suite 2U	Tale	1 (425) 705 0160	E-4.
Issaquah, WA 98027		1-(425)-785-8160 1-()	Ext:
SPECIMEN MOUNTING:			
[] Self-supporting: The test specimen was r placed into test position. No additional			
[x] Adhered to IRC: The test specimen was bo Cement (IRC) boards.	ended to 1/4" Inorgani	c Reinforced	
[] Adhered to Gypsum: The test specimen was board.	adhered to 5/8" thic	ck Type X gypsum	
[] Unadhered: The specimen was not adhered over a 2" hexagonal wire mesh screen and		nstead, it was laid	
[x] Other: Self stick adhesive to IRC board	l.		
SPECIMEN LENGTH: The 24 ft. length was comprise	d of:		
[] Continuous unbroken 24 ft. length [x] Sections: [x] Three 8 ft. sections butte [] Three 8 ft. sections posit [] Other:			
ADHESIVE (applied by SGS Govmark): [x] No [] Yes - (s	pecify):		
DBSERVATIONS:			
<pre>[x] No unusual observations [] Burning Drips to Floor further qualified a [] Delamination [] Sagging [] Shrinkage</pre>	s: [] Minor; [] Mod	derate; [] Major	
[] Fallout (specimen displacement from ceilin [] Other:	g mount)		
REMARKS: [x] None [] Other:			
(Page	2 of 4)		



				Page 3
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 required [] 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.)	e 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"	
	(Page 3 of	4)		



Page 4

Received: 04/0	4/2019 Completed: 04/10/2019	Letter: H	JR	P.O.#:	Test Report #:	3-31796-0-					
Client's	20 ang 1 min 1 access 1 to 700 (1 of all 220). Composition. Textured to familiated 1 ve first view clear										
Identification top layer, printed pattern layer, adhesive layer (see continuation)											
Tested For: C	Tested For: Gordon Lewandowski			Key Test:	ASTM E 84 (Int Fin)	765					
l N	Velcos US LLC										
2	2525 64th Place, Suite 2U			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 (

(Page 4 of 4)



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)

Ignition Time

: 00:12 mm:ss

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)

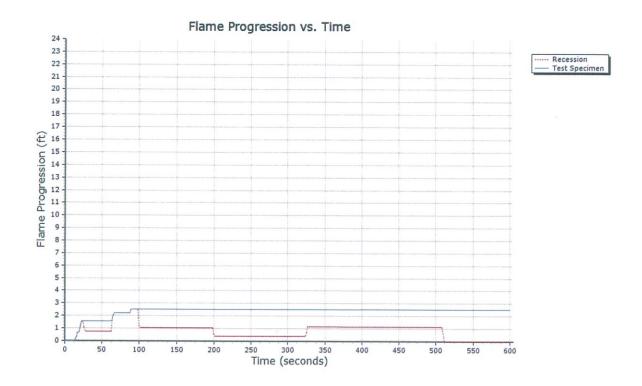
: 10

: 118.79 : 99.45

: 100 : 1330.8

: 47

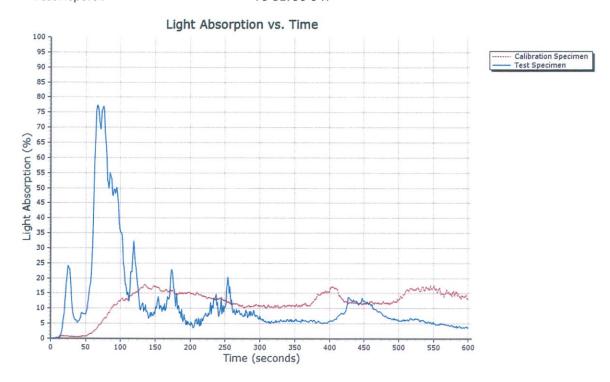
: 2.5 (@89s)





Test Method Test Report #

: ASTM E84 : 3-31796-0-H





Received: 04/04/2019 Completed: 04/10/201	9 Letter: I	JB P.O. #:		Test Report #:	3-31797-0-
Client's Bodag Architectural Vinyl Fi Identification top layer, printed pattern layer				: Textured & laminated PV	C film with clear
Tested For: Gordon Lewandowski			Key Test:	ASTM E 84 (Int Fin)	765
Nelcos US LLC 22525 64th Place, Suite 2U Issaquah, WA 98027				1-(425)-785-8160 1-()	Ext:
CLIENT'S IDENTIFICATION (continua And backin paper. Product End Use ceilings, cabinets, furniture, an	: Material is		_		sive to walls,
	w indicating "	up" on each	sample su		there is no
TEST PERFORMED: ASTM E84 - Standa Materials	rd Test Method	for Surface	Burning	Characteristics of B	uilding
REFERENCE: Comparable to: UL 723 Materials	- Standard for	Test for Su	rface Bur	ning Characteristics	of Building
APPROXIMATE THICKNESS OF SPECIMEN	(as measured	by SGS Govma:	rk): 0.01	2"	
SPECIMEN WEIGHT (to include subst	rate when appl	icable):			
Prior to Conditioning:		93.3 lb	s.		
Stabilized Weight (taken twice	within 24 hou	rs): 93.3 lb	S.		
PRODUCT CATEGORY:					
[] Textile Type Product					
[x] Vinyl Type Product					
[] Other than Textile Type or	Vinyl Type Pr	roduct:			
BRIEF DESCRIPTION OF TEST: This t material under defined test condi apparatus and is often referred t Oak burns to the 24 ft. mark in 5 wide specimen rests horizontally toward two upward oriented burner A cement board placed on the back test. The near face of the specim ten minutes. The time and distanc smoke developed as read by the ph Developed are reported as an Inde	tions. The test of as the "tunn".5 minutes ± 1 in a ceiling of s. A furnace leside of each sen is subjected of the spressotometric systems.	t is performed test". The seconds. Do configuration id that rest specimen asserted to a 4.5 fed of flame a	ed in a 2 e test co uring the inside t s in a wa mbly prot t. flame long the	25 ft. long tunnel/du contemplates a calibra e actual test, a 24 f the test chamber faci atter trough seals the ects the furnace lid insult of approximat length of the specim	ct-like tion where Red t. long x 23" ng downward and chamber tight. during the ely 88 kW for len and the
	See Page 3	for "Results	"		
	(Page	e 1 of 4)			



Received:04/04/2019 Completed:04/10/2019 Letter: I	JB P.O. #:		Test Report #:	3-31797-0-
Client's Bodag Architectural Vinyl Film. Pattern: PZ912 Identification top layer, printed pattern layer, adhesive layer (s		position:	Textured & laminated F	PVC film with clear
Tested For: Gordon Lewandowski	Ke	ey Test:	ASTM E 84 (Int Fin)	765
Nelcos US LLC 22525 64th Place, Suite 2U		Tole	1-(425)-785-8160	Ext:
Issaquah, WA 98027			1-(423)-783-8100 1-()	Ext:
SPECIMEN MOUNTING:				
[] Self-supporting: The test specimen was r placed into test position. No additional				
[] Adhered to IRC: The test specimen was bo Cement (IRC) boards.	ended to 1/4" In	organic	Reinforced	
[] Adhered to Gypsum: The test specimen was board.	adhered to 5/8	" thick	Type X gypsum	
[] Unadhered: The specimen was not adhered over a 2" hexagonal wire mesh screen and		te. Ins	tead, it was laid	
[x] Other: Self stick adhesive to IRC board	í.			
SPECIMEN LENGTH: The 24 ft. length was comprise	d of:			
[] Continuous unbroken 24 ft. length [x] Sections: [x] Three 8 ft. sections butte [] Three 8 ft. sections posit [] Other:				
ADHESIVE (applied by SGS Govmark): [x] No [] Yes - (s	pecify):			
OBSERVATIONS:				
<pre>[x] No unusual observations [] Burning Drips to Floor further qualified a [] Delamination [] Sagging [] Shrinkage [] Fallout (specimen displacement from ceilin [] Other:</pre>] Mode	erate; [] Major	
REMARKS: [x] None				
(Page	2 of 4)			



								Page .	5
Received: 04/0	4/2019 Con	pleted:04/	10/2019 Letter: I	JB	P.O.#:		Test Report #:	3-3	1797-0-
Client's Identification			inyl Film. Pattern: rn layer, adhesive			nposition: T	extured & laminated	PVC film with	clear
Tested For: C			i		K	ey Test: A	STM E 84 (Int Fin)		765
	lelcos US L 2525 64th F		DII			Tel· 1-	(425)-785-8160	Ext:	
	ssaquah, W					Fax: 1-		DAU.	
RESULTS:									
	read Indeveloped:	ex: 5 40							
ROUNDING (P	er ASTM E	E84 Report	ing Requireme	ents):					
			k value has be alue has been			earest mu	ltiple of 5.		
	Raw Data		Rounded						
	Less than	1 200	Nearest mult	iple of					
CONCLUSION: assigned a:		the repo	orted Results	and cited	Code Class	sificatio	n System, the i	tem tested i	S
[] Clas [] Clas [] Fail unsu [] Base	itable in	3 rating C rating eve a min	nimum classifi f code require ormance*, ASTM	ment	_		product method for the		
			ation or other ad is unobtain			· 50	continuity of 2 of 4.)	the flame fr	ront
DATA SUMMAR	Y:								
Maximum	Flame Spr	read "Dis	ates:seconds): tance" (feet): e" (seconds):	1.1					
CODE CLASSI	FICATION		Please see "AS			on Page	4):		
		Flame Sp:	read Index	Smoke De	veloped				
	or A:			450 or 1					
						Tlaccifia	eation Schome"		
	see Pa	ige 4 IOT				JIASSII10	ation Scheme" -	₩.	
			(Page 3 of	4)				



Page 4

Received:04/0	4/2019 Completed: 04/10/2019	Letter: I	JB	P.O.#:	Test Report #:	3-31797	7-0-				
Client's Bodag Architectural Vinyl Film. Pattern: PZ912 (Light Wood). Composition: Textured & laminated PVC film with clear top layer, printed pattern layer, adhesive layer (see continuation)											
Tested For: (Gordon Lewandowski	Key Test:	ASTM E 84 (Int Fin)	,	765						
1	Velcos 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

APR 1 7 2019

AUTHORIZED SIGNATURE

GS GOVMARK

'jab /pm

Enclosure: Graphs

Test Engineer: Jillian Brown

(Page 4 of 4)



Test Method Test Report #

: 3-31797-0-I : 4/10/2019

Date Client

: Nelco US LLC

Operator

: Jillian Brown

: ASTM E84

Details of Preparation

: 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.

Observations

: No unusual observations.

Area Under Flame Curve (ft min) : 6.41 Raw Flame Spread Index (ft min) : 3.30 Rounded Flame Spread Index (ft min) : 5

Ignition Time

: 02:58 mm:ss

Area Under Smoke Curve (%A min)

: 50.57

Raw Smoke-Developed Index

: 42.34

Rounded Smoke-Developed Index

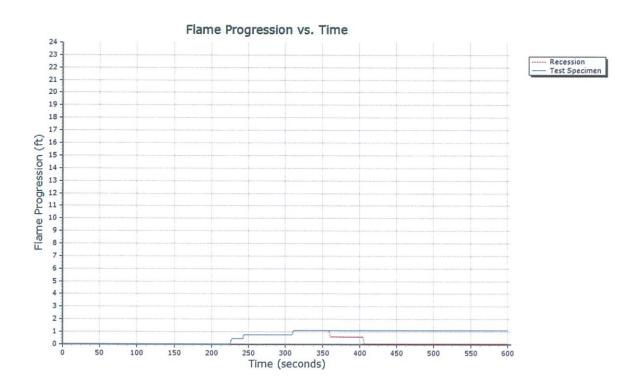
: 40 : 1330

Total Gas Flow(L) Total Gas Flow(ft³)

: 47

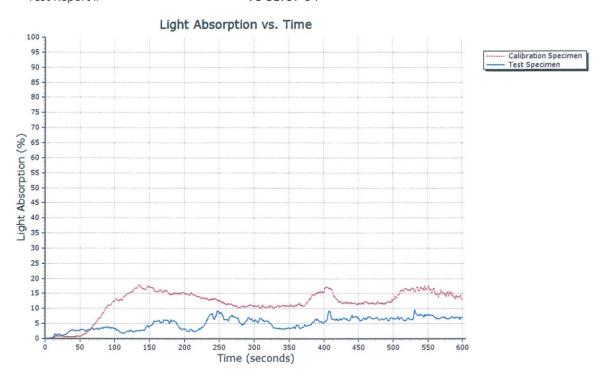
Maximum Flame Front Achieved(ft)

: 1.1 (@311s)





Test Method Test Report # : ASTM E84 : 3-31797-0-I





Received: 04/04/2019 Completed: 04/10/2019 Letter: J	JR	P.O.#:		Test Report #:		3-31798-0-
Client's Bodag Architectural Vinyl Film. Pattern: W873 Identification top layer, printed pattern layer, adhesive layer (s				Textured & laminated I	PVC film	with clear
Tested For: Gordon Lewandowski			Key Test:	ASTM E 84 (Int Fin)		765
Nelcos US LLC 22525 64th Place, Suite 2U			Tole	1-(425)-785-8160	Ext:	
Issaquah, WA 98027				1-(423)-783-8100	Ext.	
	da consecutivo					
CLIENT'S IDENTIFICATION (continuation): And backing paper. Product End Use: Material is ceilings, cabinets, furniture, and other flat c					dhesive	to walls,
Additional Information: This material is meant that even though there is an arrow indicating " "top and bottom" to the film. Test Category: Tunnel Test Specifier: BLDG(IB PC: ME /dl/pp SM/mg	up" (on each	sample su	pplied, effectivel	y there	is no
TEST PERFORMED: ASTM E84 - Standard Test Method Materials	for	Surface	e Burning	Characteristics of	Buildi	ng
REFERENCE: Comparable to: UL 723 - Standard for Materials	Tes	t for S	urface Bur	ning Characteristi	.cs of B	uilding
APPROXIMATE THICKNESS OF SPECIMEN (as measured	by S	GS Govm	ark): 0.01	п		
SPECIMEN WEIGHT (to include substrate when appl	icab	le):				
Prior to Conditioning:		88.4 1	bs.			
Stabilized Weight (taken twice within 24 hou	rs):	88.4 1	bs.			
PRODUCT CATEGORY:						
[] Textile Type Product						
[x] Vinyl Type Product						
[] Other than Textile Type or Vinyl Type Pr	oduc	t:				
BRIEF DESCRIPTION OF TEST: This test method is material under defined test conditions. The test apparatus and is often referred to as the "tunn Oak burns to the 24 ft. mark in 5.5 minutes ± 1 wide specimen rests horizontally in a ceiling contoward two upward oriented burners. A furnace 1 A cement board placed on the backside of each stest. The near face of the specimen is subjected ten minutes. The time and distance of the spread smoke developed as read by the photometric syst Developed are reported as an Index.	t is el to see onfigion to to do of	performest". The conds. Suration hat resumen asset a 4.5 flame	med in a 2 he test conduring the number of the test in a was embly proton ft. flame along the	ontemplates a calike actual test, a 24 the test chamber fatter trough seals tects the furnace linsult of approximates of the specific tends of the specifi	duct-li pration ft. lo acing do the cham id duri mately 8	where Red ong x 23" ownward and aber tight. Ing the 88 kW for and the
See Page 3 fo	r "R	esults"				
(Page 1	of ·	4)				



Received: 04/04/2019 Completed: 04/10/2019 Letter: J	JR	P.O.#:	Test Report #:	3-31798-0-
Client's Bodag Architectural Vinyl Film. Pattern: W8	73 (Dark			The second of th
Identification top layer, printed pattern layer, adhesive laye	(see co	ntinuation)		
Tested For: Gordon Lewandowski		Key Test:	ASTM E 84 (Int Fin)	765
Nelcos US LLC 22525 64th Place, Suite 2U		Tel:	1-(425)-785-8160	Ext:
Issaquah, WA 98027			1-()	Late
SPECIMEN MOUNTING:				
[] Self-supporting: The test specimen was placed into test position. No addition				
[] Adhered to IRC: The test specimen was Cement (IRC) boards.	bonded	to 1/4" Inorgani	c Reinforced	
[] Adhered to Gypsum: The test specimen w board.	as adh	ered to 5/8" thic	k Type X gypsum	
[] Unadhered: The specimen was not adher over a 2" hexagonal wire mesh screen a			stead, it was laid	
[x] Other: Self stick adhesive to IRC boa	rd.			
SPECIMEN LENGTH: The 24 ft. length was compri	sed of	:		
[] Continuous unbroken 24 ft. length [x] Sections: [x] Three 8 ft. sections but [] Three 8 ft. sections pos [] Other:				
ADHESIVE (applied by SGS Govmark): [x] No [] Yes -	(speci	fy):		
OBSERVATIONS:				
<pre>[x] No unusual observations [] Burning Drips to Floor further qualified [] Delamination [] Sagging [] Shrinkage [] Fallout (specimen displacement from ceil [] Other:</pre>			erate; [] Major	
REMARKS: [x] None [] Other:				
(Pag	e 2 of	4)		



							Page 3
Received:04	/04/2019 Co r	npleted: 04/	0/2019 Letter: J	JR	P.O.#:	Test Report #:	3-31798-0-
Client's Identification			inyl Film. Pattern: W n layer, adhesive la			on: Textured & laminated PV	C film with clear
Tested For:	Gordon Le		i		Key Te	est: ASTM E 84 (Int Fin)	765
	Nelcos US I 22525 64th I Issaquah, W	Place, Suite 2	2 U			el: 1-(425)-785-8160 ax: 1-()	Ext:
RESULTS:							
	Spread Ind Developed:						
ROUNDING	(Per ASTM	E84 Repor	ing Requiremen	ts):			
			value has been alue has been re			st multiple of 5.	
	Raw Data		Rounded				
	Less tha	n 200 ore	Nearest multip	ple of	5		
assigned [x] Cl [] Cl [] Fa un [] Ba ma	ass I or A ass II or ass III or ass III or ils to ach suitable i sed on pro terial.	rating B rating C rating ieve a min n terms on duct perfo	nimum classific E code requirem ormance*, ASTM :	ation th ent E84 is n	ereby rendering ot a suitable t	test method for the	
			ation or other lad is unobtainal			s the continuity of the Page 2 of 4.)	flame front
Maximu	o Ignition m Flame Sp	read "Dist	utes:seconds): cance" (feet): e" (seconds):	2.3			
CODE CLAS	SIFICATION	SYSTEM (Please see "AST	M E84 Li	mitations" on I	Page 4):	
			read Index		100		
Class	I or A: II or B: III or C:	0 - 25 26 - 75		450 or 1 450 or 1	ess ess		
	See P	age 4 for	"Building Code	Citatio	n for The Class	sification Scheme"	
			(P	age 3 of	4)		



Page 4

Received: 04/0	4/2019 Completed: 04/10/2019	Letter: J	JR	P.O.#:	Test Report #:	3-31798	8-0-
Client's Identification	Bodag Architectural Vinyl Film top layer, printed pattern layer,				Textured & laminated I	PVC film with clear	ır
Tested For: Gordon Lewandowski			Key Test: ASTM E 84 (Int Fin)				
1	lelcos 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

_____ APR 1 7 2019

OTHORIZED SIGNATURE

SGS OVMARK

Enclosure: Graphs

Test Engineer: Jimmy Rosinsky

(Page 4 of 4)



 Test Method
 : ASTM E84

 Test Report #
 : 3-31798-0-J

 Date
 : 4/10/2019

 Client
 : Nelco US LLC

Client : Nelco US LLC
Operator : Jimmy Rosinsky

Details of Preparation : 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.

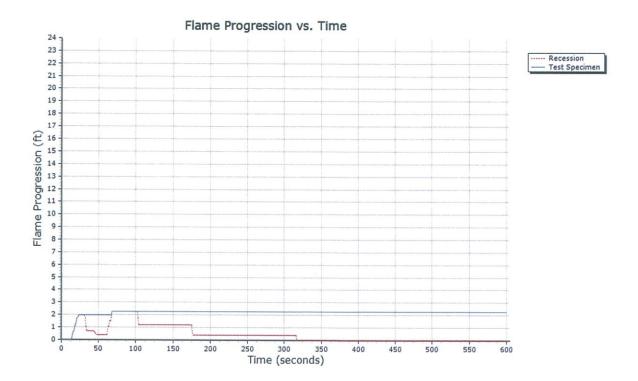
Observations : No unusual observations

Area Under Flame Curve (ft min) : 21.73
Raw Flame Spread Index (ft min) : 11.19
Rounded Flame Spread Index (ft min) : 10

Ignition Time : 00:10 mm:ss

Area Under Smoke Curve (%A min) : 90.45
Raw Smoke-Developed Index : 75.73
Rounded Smoke-Developed Index : 75
Total Gas Flow(L) : 1329.7
Total Gas Flow(ft³) : 47

Maximum Flame Front Achieved(ft) : 2.3 (@68s)





Test Method Test Report # : ASTM E84 : 3-31798-0-J

