Tested For:	Anna Chappell	Phone:	011 61 9970 1715	Received:	6/11/2021	
	Woven Image PTY LTD	Fax:		Completed:	7/19/2021	
	37-39 Chard Rd. Brookvale	Mobile:		Code:	D	
		PO#:		Test Report:	3-44097-0	
	New South Wales, Australia, 2100	Email:	Anna.chappell@wovenimage.com			
Variation						
Key Test:	ASTM E84 (Int Fin)					80
Client's Identi						
FIGURE DES	cription: 3D Tile. Composition: 100%		Cycled), Colour 542 Charcoar			
	Tunnel Test Specifier: BLDG(IBC): LE 2			PC: ME	BB /dv	
TEST PERI	FORMED: ASTM E84 - Standard To	est Method f	or Surface Burning Characterist	ics of Building	Materials	
REFERENC	CE: Comparable to: UL 723 - Stand	ard for Test	for Surface Burning Characteris	tics of Building	Materials	
REFERENC	CE: Comparable to: UL 723 - Stand	ard for Test	for Surface Burning Characteris	tics of Building	Materials	
	CE: Comparable to: UL 723 - Stand				Materials	
					Materials	
APPROXIM		(as measure	ed by SGS North America): 1.86		Materials	
APPROXIM SPECIMEN	ATE THICKNESS OF SPECIMEN	(as measure en applicable	ed by SGS North America): 1.86		Materials	
APPROXIM SPECIMEN Prior to	ATE THICKNESS OF SPECIMEN	(as measure en applicable 20	ed by SGS North America): 1.86		Materials	
APPROXIM SPECIMEN Prior to Stabilize	ATE THICKNESS OF SPECIMEN WEIGHT (to include substrate whe	(as measure en applicable 20	ed by SGS North America): 1.86 e): 0.3 lbs.		Materials	
APPROXIM SPECIMEN Prior to Stabilize PRODUCT	ATE THICKNESS OF SPECIMEN WEIGHT (to include substrate whe Conditioning: ed Weight (taken twice within 24 ho CATEGORY:	(as measure en applicable 20	ed by SGS North America): 1.86 e): 0.3 lbs.		Materials	
APPROXIM SPECIMEN Prior to Stabilize PRODUCT □ Textil	ATE THICKNESS OF SPECIMEN WEIGHT (to include substrate whe Conditioning: ed Weight (taken twice within 24 ho CATEGORY: le Type Product	(as measure en applicable 20	ed by SGS North America): 1.86 e): 0.3 lbs.		Materials	
APPROXIM SPECIMEN Prior to Stabilize PRODUCT □ Textil □ Vinyl	ATE THICKNESS OF SPECIMEN WEIGHT (to include substrate whe Conditioning: d Weight (taken twice within 24 ho CATEGORY: le Type Product Type Product	(as measure en applicable urs): 20	ed by SGS North America): 1.86 a): 0.3 lbs. 0.3 lbs.	4"	Materials	
APPROXIM SPECIMEN Prior to Stabilize PRODUCT □ Textil □ Vinyl	ATE THICKNESS OF SPECIMEN WEIGHT (to include substrate whe Conditioning: ed Weight (taken twice within 24 ho CATEGORY: le Type Product	(as measure en applicable urs): 20	ed by SGS North America): 1.86 a): 0.3 lbs. 0.3 lbs.	4"	Materials	
APPROXIM SPECIMEN Prior to Stabilize PRODUCT □ Textil □ Vinyl ⊠ Other	ATE THICKNESS OF SPECIMEN WEIGHT (to include substrate whe Conditioning: ed Weight (taken twice within 24 ho CATEGORY: le Type Product Type Product r than Textile Type or Vinyl Type Pr	(as measure en applicable urs): 20	ed by SGS North America): 1.86 e): 0.3 lbs. 0.3 lbs.	4" Ve		d
APPROXIM SPECIMEN Prior to Stabilize PRODUCT □ Textil □ Vinyl ☑ Other BRIEF DES	ATE THICKNESS OF SPECIMEN WEIGHT (to include substrate whe Conditioning: ed Weight (taken twice within 24 ho CATEGORY: le Type Product Type Product r than Textile Type or Vinyl Type Pr CRIPTION OF TEST: This test me	(as measure en applicable urs): 20 roduct: see o thod is used	ed by SGS North America): 1.86 e): 0.3 lbs. 0.3 lbs. client's Identification section abo	4" ve g behavior of a	a material un	de
APPROXIM SPECIMEN Prior to Stabilize PRODUCT Textil Vinyl Vinyl Other BRIEF DES defined test	ATE THICKNESS OF SPECIMEN WEIGHT (to include substrate whe Conditioning: ed Weight (taken twice within 24 ho CATEGORY: le Type Product Type Product than Textile Type or Vinyl Type Pr CRIPTION OF TEST: This test me conditions. The test is performed in The test contemplates a calibratic	(as measure en applicable 20 urs): 20 roduct: see o thod is used n a 25 ft. long on where Res	ed by SGS North America): 1.86 e): 0.3 lbs. 0.3 lbs. 0.3 lbs. to determine the relative burnin g tunnel/duct-like apparatus and d Oak burns to the 24 ft. mark ir	4" ve g behavior of a l is often referm 5.5 minutes ±	a material un ed to as the ± 15 seconds	
APPROXIM SPECIMEN Prior to Stabilize PRODUCT Textil Vinyl Vinyl SRIEF DES defined test 'tunnel test" During the a	ATE THICKNESS OF SPECIMEN WEIGHT (to include substrate whe Conditioning: ed Weight (taken twice within 24 ho CATEGORY: le Type Product Type Product t than Textile Type or Vinyl Type Pr CRIPTION OF TEST: This test me conditions. The test is performed in The test contemplates a calibratic actual test, a 24 ft. long x 23" wide s	(as measure en applicable 20 urs): 20 roduct: see o thod is used n a 25 ft. lon on where Re- specimen res	ed by SGS North America): 1.86 e): 0.3 lbs. 0.3 lbs. 0.3 lbs. to determine the relative burnin g tunnel/duct-like apparatus and d Oak burns to the 24 ft. mark in sts horizontally in a ceiling config	4" ve g behavior of a l is often referm 5.5 minutes d guration inside	a material un ed to as the 15 seconds the test	5.
APPROXIM SPECIMEN Prior to Stabilize PRODUCT Textil Vinyl SRIEF DES defined test 'tunnel test During the a chamber fac	ATE THICKNESS OF SPECIMEN WEIGHT (to include substrate whe Conditioning: ed Weight (taken twice within 24 ho CATEGORY: le Type Product Type Product t than Textile Type or Vinyl Type Pr CRIPTION OF TEST: This test me conditions. The test is performed in The test contemplates a calibratic actual test, a 24 ft. long x 23" wide so	(as measure en applicable 20 urs): 20 roduct: see o thod is used n a 25 ft. long on where Re- specimen res vard oriented	ed by SGS North America): 1.86 e): 0.3 lbs. 0.3 lbs. 0.3 lbs. to determine the relative burnin g tunnel/duct-like apparatus and d Oak burns to the 24 ft. mark in sts horizontally in a ceiling config I burners. A furnace lid that rests	4" ye g behavior of a l is often referm 5.5 minutes d guration inside s in a water tro	a material un ed to as the 15 seconds the test ugh seals the	s. e
APPROXIM SPECIMEN Prior to Stabilize PRODUCT Textil Dring Textil SRIEF DES defined test funnel test During the a chamber fac chamber tig est. The ne	ATE THICKNESS OF SPECIMEN WEIGHT (to include substrate whe Conditioning: d Weight (taken twice within 24 ho CATEGORY: le Type Product Type Product Type Product r than Textile Type or Vinyl Type Pr CRIPTION OF TEST: This test mer conditions. The test is performed in The test contemplates a calibratic octual test, a 24 ft. long x 23" wide so ing downward and toward two upw nt. A cement board placed on the b ar face of the specimen is subjected	(as measure en applicable 20 urs): 20 roduct: see o thod is used n a 25 ft. lon on where Re- specimen res vard oriented backside of e d to a 4.5 ft.	ed by SGS North America): 1.86 e): 0.3 lbs. 0.3 lbs. 0.3 lbs. 0.3 lbs. to determine the relative burnin g tunnel/duct-like apparatus and d Oak burns to the 24 ft. mark ir sts horizontally in a ceiling config I burners. A furnace lid that rests each specimen assembly protect flame insult of approximately 88	4" g behavior of a l is often referm 5.5 minutes d guration inside s in a water tro ts the furnace l 3 kW for ten mi	a material un ed to as the ± 15 seconds the test ugh seals the id during the inutes. The	s. e
APPROXIM SPECIMEN Prior to Stabilize PRODUCT Textil Vinyl Vinyl Other BRIEF DES Jefined test tunnel test During the a chamber fac chamber fac chamber fac	ATE THICKNESS OF SPECIMEN WEIGHT (to include substrate whe Conditioning: ed Weight (taken twice within 24 ho CATEGORY: le Type Product Type Product Type Product than Textile Type or Vinyl Type Pr CRIPTION OF TEST: This test me conditions. The test is performed in . The test contemplates a calibratic actual test, a 24 ft. long x 23" wide so ing downward and toward two upw nt. A cement board placed on the lo	(as measure en applicable 20 urs): 20 roduct: see o thod is used n a 25 ft. long on where Re- specimen res vard oriented backside of e d to a 4.5 ft. the length o	ed by SGS North America): 1.86 e): 0.3 lbs. 0.3 lbs. 0.3 lbs. 0.3 lbs. to determine the relative burnin g tunnel/duct-like apparatus and d Oak burns to the 24 ft. mark ir sts horizontally in a ceiling config l burners. A furnace lid that rests each specimen assembly protect flame insult of approximately 88 f the specimen and the smoke d	4" g behavior of a l is often refern 5.5 minutes d guration inside s in a water tro is the furnace l kW for ten mi leveloped as re	a material un ed to as the ± 15 seconds the test ugh seals the id during the inutes. The ead by the	s. e

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SGS					
Tested For:	Anna Chappell Woven Image PTY LTD 37-39 Chard Rd. Brookvale	Fax: Mobile: PO#:		Received: Completed: Code: Test Report:	6/11/2021 7/19/2021 D 3-44097-0
	New South Wales, Australia, 2100	Email:	Anna.chappell@wovenimage.com		
Key Test:	ASTM E84 (Int Fin)				805
SPECIMEN	MOUNTING:				
ade □ Ad □ Ad ⊠ Un me	If-supporting: The test specimen wa ditional support was required. hered to IRC: The test specimen wa hered to Gypsum: The test specime adhered: The specimen was not ad esh screen and ¹ /4" rods.	as bonded t en was adhe	o ¼" Inorganic Reinforced Ceme ered to 5/8" thick Type X gypsun	ent (IRC) boar n board.	ds.
SPECIMEN	LENGTH: The 24 ft. length was con	mprised of:			
⊡ Conti ⊠ Secti	nuous unbroken 24 ft. length ons:	positively jo	bined		
ADHESIVE	(applied by SGS North America):	⊠ No □ Yes - (specify):		

JG

OBSERVATIONS:

Delamination
 Sagging
 Shrinkage

Other:

No unusual observations

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Burning Drips to Floor further qualified as:
Minor;
Moderate;
Major

□ Fallout (specimen displacement from ceiling mount)

Page 2 of 5

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Tested For:	Anna Chappell		Dhamai	011 01 0070 1745		10
rested i or,	Woven Image PTY LT		Phone:	011 61 9970 1715	Received:	6/11/2021
	37-39 Chard Rd. Broo		Fax: Mobile:		Completed:	7/19/2021
		ORVEIC	PO#:		Code:	D
			Email:	Anna.chappell@wovenimage.com	Test Report:	3-44097-0
	New South Wales, Au	ustralia, 2100	Cinan.	Anna.cnappen@wovenimage.com		
ey Test:	ASTM E84 (Int Fin)					
EMARKS:						
	Theavy fire pooling	g on tunnel floor	; traveled do	wn the full 24 ft. tunnel.		
ESULTS:						
	pread index:	5				
Smoke [Developed:	400				
OUNDING	(Per ASTM E84 R	Reporting Requir	ements):			
Elamo S	prood Indox volue	has been record	مطغم فامم بممم			
Smoke E	pread Index value Developed value ha	nas been round- as been rounder	ed to the nea 1 to:	irest multiple of 5.		
Raw Dat Less tha						
200 or m		est multiple of 5 est multiple of 50				
	N: Based on the r	enorted Results	and aited Co	de Clossification System the it		
	Div. Dased on the f	eponeu Results	and cited Co	ode Classification System, the ite	em tested is as	signed a:
🛛 Class	I or A rating					
Class	II or B rating					
	III or C rating					
Class	o achieve a minimi I on product perforr	um classification	thereby ren	dering the product unsuitable in suitable test method for the mate	terms of code	requirement
□ Class □ Fails t						
□ Class □ Fails t		n or other behav	ior that dest	roys the continuity of the flame f	ront such that	a valid flame
☐ Class □ Fails t □ Based Severe mel	t, drip, delaminatio	in or other beria				
☐ Class □ Fails t □ Based Severe mel	t, drip, delaminatio obtainable (See "Re	emarks")				
☐ Class □ Fails t □ Based Severe mel	t, drip, delaminatio obtainable (See "Re	emarks")				
☐ Class □ Fails t □ Based Severe mel	t, drip, delaminatio bbtainable (See "Re	emarks")				
☐ Class □ Fails t □ Based Severe mel	t, drip, delaminatio obtainable (See "Re	emarks")				
☐ Class □ Fails t □ Based Severe mel	t, drip, delaminatio obtainable (See "Re	emarks")				
☐ Class □ Fails t □ Based Severe mel	t, drip, delaminatio obtainable (See "Re	emarks")				

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Tested For:	Anna Chappell	Phone:	011 61 9970 1715	Received:	6/11/2021
	Woven Image PTY LTD	Fax:		Completed:	7/19/2021
	37-39 Chard Rd. Brookvale	Mobile:		Code:	D
		PO#:		Test Report:	3-44097-0
		Email:	Anna.chappell@wovenimage.com		
	New South Wales, Australia, 2100				
Key Test:	ASTM E84 (Int Fin)				

DATA SUMMARY:

Time to Ignition (minutes:seconds):00:14Maximum Flame Spread "Distance" (feet):1.3Maximum Flame Spread "Time" (seconds):53

CODE CLASSIFICATION SYSTEM (Please see "ASTM E84 Limitations"):

Flame Spread In	ndex	Smoke Developed
Class I or A:	0 - 25	450 or less
Class II or B:	26 - 75	450 or less
Class III or C:	76 - 200	450 or less

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 North America's opinion, the codes require NFPA 286 for such products, even in sprinklered areas.

JG

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SGS	2					
Tested For:	Anna Chappell	Phone:	011 61 9970 1715	Received:	6/11/2021	
	Woven Image PTY LTD	Fax:		Completed:	7/19/2021	
	37-39 Chard Rd. Brookvale	Mobile:		Code:	D	
		PO#:		Test Report:	3-44097-0	
		Email:	Anna.chappell@wovenimage.com			
	New South Wales, Australia, 2100					
Key Test:	ASTM E84 (Int Fin)					80

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

Jillian Guillem

Test Engineer: Jillian Guillem

AUTHORIZED SIGNATURE SGS NORTH AMERICA /jab 10

JUL 2 0 2021

Enclosure: Graphs

JG

Ver. 2021-03-09 10:35

Page 5 of 5

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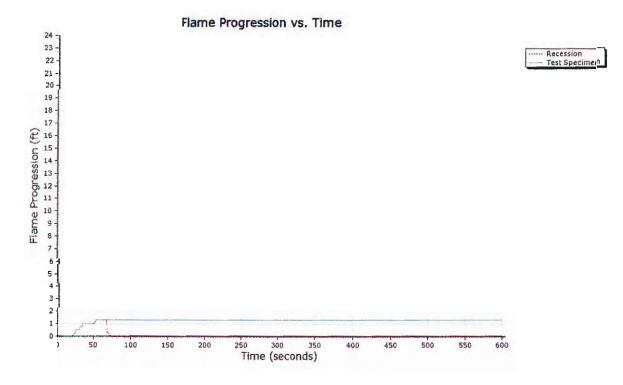


Program: ASTM E84 (Version 2.10)

Test Method	: ASTM E84
Test Report #	: 3-44097-0-D
Date	: 7/19/2021
Client	: Woven Image PTY LTD
Operator	: Jillian Guillem
Details of Preparation	: The specimen was not adhered to any substrate. Instead, it was laid over a 2" hexagonal wire mesh screen and 1/4" rods. The 24 ft. specimen was comprised of eight 3 ft. sections butted end to end.
Observations	: Heavy flaming drip/fire pooling on tunnel floor. Fire pooling traveled down the full 24 ft tunnel.

Area Under Flame Curve (ft min)	: 12 .31
Raw Flame Spread Index (ft min)	: 6.34
Rounded Flame Spread Index (ft min)	: 5
Ignition Time	: 00:14 mm:ss
Area Under Smoke Curve (%A min)	: 399.83
Raw Smoke-Developed Index	: 397.61
Rounded Smoke-Developed Index	: 400
Total Gas Flow(L)	: 1598.7
Total Gas Flow(ft ³)	: 56.5
Maximum Flame Front Achieved(ft)	: 1.3 (@ 53s)

1



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Program: ASTM E84 (Version 2.10)

