

Page 1

Received: 12/2	7/2019	Completed: 01/0	3/2020	Letter: I		JR	P.O.#:		Test Report #:		3-36324-0-
Client's Identification	Style: : Inform	5080100C BLK ation: Black Felt	Compo	sition: PET	Prod	luct E	End Use: Acoustical E	Baffle	Thickness: 2.54	Additional	
Tested For: J	ason k	Kortman					Key Test	: NFP	A 701-2019 TM#1		275
F	F Walls	LLC dba Quell	Acoutic	S							
1	34 Rive	r Hills Dr.					Tel:	1-(6)	16)-283-5646	Ext:	
H	Iolland,	MI 49424						1-(			

LE:2019 V:01/19

PC: 0.5H DL/jd

TEST PERFORMED: NFPA 701 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films - 2019 Edition - Test Method #1

PRODUCT CONFIGURATION: [x] Single Layer; [] Multi Layer

RESULTS REPORTED: [x] Initially; [ ] After 3 dry cleanings; [ ] After 5 launderings @ 160°F

RE	SULTS:		Flamming	
	Specimen #	Afterflame* (seconds)	Drip/Debris (seconds)	Weight Loss (percent)
	1	0.0	0.0	1.2
	2	0.0	2.6	7.8
	3	0.0	0.9	15.4
	4	0.0	2.5	12.7
	5	0.0	0.6	7.6
	6	0.0	0.0	6.1
	7	0.0	1.1	18.3
	8	0.0	0.0	2.4
	9	4.7	3.8	15.9
	10	0.0	0.0	2.4
		Mea	n: 1.2 Me	ean: 9.0

STATISTICAL VALUES: SD = 6.2 3 SD = 18.6 Mean + 3 SD = 27.6

ABBREVIATIONS USED: SD = Standard deviation. NT = Not tested.

APPROXIMATE WEIGHT OF MATERIAL (as measured by SGS):  $272 \text{ g/m}^2$ 

PRECONDITIONING: [x] 0.5 hr @ 220°F (Standard)

[ ] 24 hrs @ 68±9°F (Alternate: Material shrinks/distorts @ 220°F)

CONVERSION FACTOR:  $g/m^2 \div 28.35 \times .835 = oz/yd^2$ 

## NOTE:

- 1. All specimens prepared in the length direction.
- 2. See addendum for individual specimen weights.

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Page 2

		1									
Received: 12	1	Completed: 01/0			JR	P.O.#:			Test Report #:		3-36324-0-
Client's Identification	Style: Inform	5080100C BLK nation: Black Fel	Compos	ition: PET Pro	oduct E	and Use: Acc	oustical B	affle '	Thickness: 2.54	Addition	al
<b>Tested For:</b>						k	Key Test:	NFPA	701-2019 TM#1		275
		s LLC dba Quell	Acoutics								
		er Hills Dr. , MI 49424							6)-283-5646	Ext:	
	Tionand	, 1411 47424					rax:	1-( )-			
REMARKS:											
[x] Fla	mes di	d not project ojected above	above	the top of	the s	pecimen.	en #!c				
[ ] Oth	er:			p or one bp	CCIMC	ii, bpecim	CII # 5	-			
FAILURE CR	ITERIA	: As cited by	NFPA 7	01 - 2019 E	ditio	n Test Me	thod #1				
				Weigh	t Los	s (percent	t)				
7.5+51		Flaming Dri	p/Debri								
Afterfl		(Mean)		Mean			ividual 	_			
*		Exceeds 2 s	econds	Excee	ds 40	% Exce					
CONCLUSION Edition Te	: Base st Metl	ed on the Res hod #1, the i	ults on tem tes	page 1 and ted:	the	above Fail	lure Cr	iteri	a cited by NF	PA 701 -	2019
[x] Pas	ses; [	] Fails; [ ]		es testing nly one ind							
it in exces	to the sive at	is required t Failure Crit fterflames co "match" field	eria re <sub>l</sub> uld be «	porting req	uirem	ents. It	should	be no	es not factor oted that horities		
CERTIFICAT with the p	ION: I	certify thates and equip	t the al	ecified abo	ve.				ing specimens	in acco	ordance
					306	JAN O	JUIL				
		· <i>[</i> -[				0.44	6 2020	1			
AUTHORIZED SGS GOVMAR		TURE/				JAN O	U				
/ab lpm	1.74										
182											
				/=		-5 0'					
		//		(Pa	ige 2	of 2)					

Client Name : FF Walls LLC dba Quell Acoutics

Addendum to Test Report #: 3-36324-0-i Test : 701- TM#1

Spe	ecimen #	Weight Before Test (g)	Weight After Test (g)	Percent Weight Loss	
	1	16.40	16.20	1.2	
	2	15.40	14.20	7.8	
	3	15.60	13.20	15.4	
	4	15.80	13.80	12.7	
	5	15.80	14.60	7.6	
	6	16.40	15.40	6.1	
	7	16.40	13.40	18.3	
	8	16.40	16.00	2.4	
	9	16.40	13.80	15.9	
	10	16.60	16.20	2.4	

Mean Percent Weight Loss : 9.0 Standard Deviation : 6.2 3 x Standard Deviation : 18.6 Mean + 3 x Standard Deviation : 27.6



Page 1

Received: 12/27/2019	Completed: 01/03/2020	Letter: J	JR	P.O.#:	Test Report #:		3-36325-0-
Client's Style: Information	5080100C CHC Componation: Grey Felt	sition: PET	Product I	End Use: Acoustical B	affle Thickness: 2.54	Additiona	1
Tested For: Jason FF Wal	Kortman  Is LLC dba Quell Acoutics			Key Test:	NFPA 701-2019 TM#1		275
134 Riv	er Hills Dr. , MI 49424	,			1-(616)-283-5646 1-( )	Ext:	

LE:2019 V:01/19

PC: 0.5H DL/jd

TEST PERFORMED: NFPA 701 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films - 2019 Edition - Test Method #1

PRODUCT CONFIGURATION: [x] Single Layer; [ ] Multi Layer

RESULTS REPORTED: [x] Initially; [ ] After 3 dry cleanings; [ ] After 5 launderings @ 160°F

RES	SULTS:		Flamming	
	Specimen #	Afterflame* (seconds)	Drip/Debris (seconds)	Weight Loss (percent)
	1	0	0.6	16.9
	2	0	0.8	16.1
	3	0	0.5	23.3
	4	0	1.2	20.2
	5	0	0.0	22.0
	6	0	0.5	20.9
	7	0	0.5	16.9
	8	0	0.0	19.5
	9	0	0.0	22.2
	10	0	0.9	20.7
		Mean	: 0.5 Mean	: 19.9

STATISTICAL VALUES: SD = 2.5 3 SD = 7.5 Mean + 3 SD = 27.3

ABBREVIATIONS USED: SD = Standard deviation. NT = Not tested.

APPROXIMATE WEIGHT OF MATERIAL (as measured by SGS): 272 g/m²

PRECONDITIONING: [x] 0.5 hr @ 220°F (Standard)

[ ] 24 hrs @ 68±9°F (Alternate: Material shrinks/distorts @ 220°F)

CONVERSION FACTOR:  $g/m^2 \div 28.35 \times .835 = oz/yd^2$ 

## NOTE:

- 1. All specimens prepared in the length direction.
- 2. See addendum for individual specimen weights.

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Page 2

22000	Completed: 01/03/2020 Lette	r: J JR P.O	0.#:	Test Report #:	3-36325-0-
Client's Style Identification Infor	e: 5080100C CHC Composition rmation: Grey Felt	: PET Product End U	Jse: Acoustical Baf	fle Thickness: 2.54 Ad	ditional
Tested For: Jason			Key Test: N	VFPA 701-2019 TM#1	275
	lls LLC dba Quell Acoutics ver Hills Dr.		Tale 1	(616) 202 5(4)	
	d, MI 49424			-(616)-283-5646 E	Ext:
REMARKS:					
	id not project above the rojected above the top or				
FAILURE CRITERI	A: As cited by NFPA 701	- 2019 Edition Te	est Method #1		
		Waish Issa (v			
	Flaming Drip/Debris	Weight Loss (p	percent) 		
Afterflame	(Mean)	Mean	Individual S	Specimen	
*	Exceeds 2 seconds				
CONCLUSION: Ba	sed on the Results on pag	ge 1 and the abov	ve Failure Crit	teria cited by NFPA	701 - 2019
Edition Test Met	thod #1, the item tested:				
	thod #1, the item tested: [ ] Fails; [ ] Requires t	:	ditional specir	nens	
<pre>[x] Passes;  * Afterflame   it into the   excessive a</pre>	thod #1, the item tested:  [ ] Fails; [ ] Requires to i.e. only  is required to be recorded Failure Criteria reported afterflames could be caused.	testing of 10 add one individual s ded; however, the ting requirements	ditional specimen failumente NFPA documente. It should be	mens re was noted  t does not factor oe noted that	
<pre>[x] Passes;  * Afterflame   it into the   excessive a</pre>	thod #1, the item tested:  [ ] Fails; [ ] Requires to i.e. only  is required to be recorder Failure Criteria report	testing of 10 add one individual s ded; however, the ting requirements	ditional specimen failumente NFPA documente. It should be	mens re was noted  t does not factor oe noted that	
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<pre>[x] Passes;  * Afterflame   it into the   excessive a   performing  CERTIFICATION:</pre>	[] Fails; [] Requires to i.e. only  is required to be record afterflames could be cause "match" field tests.  I certify that the above	testing of 10 add one individual sed ded; however, the ting requirements se for rejection	ditional speciments of the NFPA documents. It should he by local fire	mens re was noted  t does not factor be noted that authorities  testing specimens in	accordance
<pre>[x] Passes;  * Afterflame    it into the    excessive a    performing  CERTIFICATION: with the procedu</pre>	[] Fails; [] Requires to i.e. only  is required to be record afterflames could be cause "match" field tests.  I certify that the above ares and equipment specifications.	testing of 10 add one individual sed ded; however, the ting requirements se for rejection	ditional speciments pecimen failure NFPA documents. It should he by local fire	mens re was noted  t does not factor be noted that authorities  testing specimens in	
[x] Passes;  * Afterflame it into the excessive a performing  CERTIFICATION: with the procedu	[] Fails; [] Requires to i.e. only  is required to be record afterflames could be cause "match" field tests.  I certify that the above ares and equipment specifications.	testing of 10 add one individual sed ded; however, the ting requirements se for rejection	ditional speciments pecimen failure NFPA documents. It should he by local fire	mens re was noted  t does not factor be noted that authorities  testing specimens in	
[x] Passes;  * Afterflame it into the excessive a performing  CERTIFICATION: with the procedu	[] Fails; [] Requires to i.e. only  is required to be record afterflames could be cause "match" field tests.  I certify that the above ares and equipment specifications.	testing of 10 add one individual sed ded; however, the ting requirements se for rejection	ditional speciments pecimen failure NFPA documents. It should he by local fire	mens re was noted  t does not factor be noted that authorities  testing specimens in	
[x] Passes;  * Afterflame it into the excessive a performing  CERTIFICATION: with the procedu	[] Fails; [] Requires to i.e. only  is required to be record afterflames could be cause "match" field tests.  I certify that the above ares and equipment specifications.	testing of 10 add one individual sed ded; however, the ting requirements se for rejection	ditional speciments pecimen failure NFPA documents. It should he by local fire	mens re was noted  t does not factor be noted that authorities  testing specimens in	

Client Name : FF Walls LLC dba Quell Acoutics

Addendum to Test Report #: 3-36325-0-J
Test : 701- TM#1

Spe	cimen #	Weight Before Test (g)	Weight After Test (g)	Percent Weight Loss	
	1	17.80	14.80	16.9	
	2	17.40	14.60	16.1	
	3	17.20	13.20	23.3	
	4	16.80	13.40	20.2	
	5	16.40	12.80	22.0	
	6	17.20	13.60	20.9	
	7	16.60	13.80	16.9	
	8	16.40	13.20	19.5	
	9	16.20	12.60	22.2	
	10	16.40	13.00	20.7	

Mean Percent Weight Loss : 19.9 Standard Deviation : 2.5 3 x Standard Deviation : 7.5 Mean + 3 x Standard Deviation : 27.3