



Received: 05/08/2007	Completed: 05/20/2007	Letter: H11	rb	P.O.#:	Test Report #: 2-67652-0-11-DU1
Client's Identification	Patty Madden Software - Aspen				
Tested For:	Patty Madden Software				Key Test: CA 117 E DURC 25
				Tel: 1-( )- -	Ext:
				Fax: 1-( )- -	

PC: .5H+.5H /md

TEST PERFORMED: California Technical Bulletin 117 (March 2000) Section E Upholstery Fabrics

RESULTS:	LENGTH		WIDTH
Specimen	Burning Time (seconds)	Specimen	Burning Time (seconds)
1 Face	DNI	#6 Face	DNI
2 Face	DNI	#7 Face	DNI
3 Face	DNI	#8 Back	DNI
4 Back	DNI	#9 Back	DNI
5 Back	DNI	#10 Back	DNI
Avg:		Avg:	

NOTE: This is a minimal flammability test to screen out highly flammable materials.

REMARKS: None.

ACCEPTANCE CRITERIA: Shall meet Class I of CS 191-53 --

Minimum Average Burning Time (Flame Spread)

- Plain Surface Materials: 3.5 Seconds or No Recordable Burning Time
- Raised Surface Materials: 7.0 Seconds or No Recordable Burning Time

BREVIATIONS OF "NO RECORDABLE BURNING TIME" CATEGORIES:

- DNI = Did not ignite when exposed to test ignition source.
- IBE = Ignited but extinguished before burning through stopcord.
- SF = Surface flash only; stopcord not burned & no burning/charring/fusing of the base fabric.
- TSF = Timed surface flash; stopcord burned, but no burning/charring/fusing of the base fabric.

CONCLUSION: Based on the above Results and Acceptance Criteria, the item tested:

- Complies;  Does not comply

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified by California Technical Bulletin 117 (March 2000) Section E Upholstery Fabrics.

*Heather E. Robertson*

**MS. HEATHER ROBERTSON**

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Received:05/08/2007	Completed:05/13/2007	Letter: H7	rb	P.O.#:	Test Report #:	2-67652-0-07-DU1
Client's Identification	Patty Madden Software - Aspen					
Tested For:	Patty Madden Software				Key Test: UFAC Fabric DURC	25
					Tel: 1-( )- -	Ext:
					Fax: 1-( )- -	

PC.4H

TEST PERFORMED: UFAC Fabric Classification Test Method 1990  
Cigarette Ignition Resistance of Fabric Intended for Use in Upholstered Furniture

RESULTS:	TEST		RETEST (If Required)	
	Ignition (yes/no/SE)	Char Length on Vertical Panel (inches)	Ignition (yes/no/SE)	Char Length on Vertical Panel (inches)
Specimen #				
1	SE	0.3	SE	0.4
2	SE	0.4	SE	0.3
3	SE	0.4	SE	0.5

ABBREVIATION WHICH MAY BE USED:

SE: Indicates that the cigarette self-extinguished prior to burning its entire length. When this occurs, a "retest" of that specimen is performed.

CLASSIFICATION SYSTEM:

Class I - For each specimen: No obvious ignition; char length less than 1.75".  
(Indicates propensity to resist cigarette ignition in conjunction with standard foam filling material.)

Class II - For any specimen: Obvious ignition or char length 1.75" or greater.  
(Indicates inability to resist cigarette ignition in conjunction with standard foam filling material.)

RETEST PROVISION:

Applies only to cigarettes that self-extinguish. It does not apply to specimens which ignite or have a char length of 1.75" or greater.

CONCLUSION: Based on the above Results and Criteria, the item tested is assigned a:

Class I rating;  Class II rating

Received: 05/08/2007	Completed: 05/13/2007	Letter: H7	rb	P.O.#:	Test Report #: 2-67652-0-07-DU1
Client's Identification	Patty Madden Software - Aspen				
Tested For:	Patty Madden Software			Key Test: UFAC Fabric DURC	25
				Tel: 1-( )- -	Ext:
				Fax: 1-( )- -	

REMARKS: None.

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified by UFAC Fabric Classification Test Method 1990.

*Heather E. Robertson*

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**MS. HEATHER ROBERTSON**

Received:06/12/2007	Completed:06/25/2007	Letter: H12	rb	P.O.#:	Test Report #: 2-67652-0-13-DU1
Client's Identification	Patty Madden Software - Aspen				
Tested For:	Patty Madden Software			Key Test: BS EN 1021-1 1994 DURC	25
				Tel: 1-( )- -	Ext:
				Fax: 1-( )- -	

PC: 16H

TEST PERFORMED: British Standard BS EN 1021-1: 1994  
 Furniture - Assessment of the Ignitability of Upholstered Furniture, Part 1

IGNITION SOURCE: Smouldering Cigarette

TEST ITEM COMPOSITE:

Client's cover fabric: (see "Client's Identification" section above)

Suggested filling material:

- Non flame retardant flexible polyether foam, 22 kg/m<sup>3</sup> (1.4 lb/ft<sup>3</sup>)
- Flame retardant polyurethane foam, 45 kg/m<sup>3</sup> (2.8 lb/ft<sup>3</sup>), Code Red II 35
- Non flame retardant flexible polyether foam, 22 kg/m<sup>3</sup> (1.4 lb/ft<sup>3</sup>), wrapped with Sandel Style 12701-14502 fire blocking material (4.7 ± 0.5 oz/yd<sup>2</sup>)

COVER FABRIC WATER SOAKED PRIOR TO TESTING IN ACCORDANCE WITH ANNEX D:  Yes;  No

PRECONDITIONING: 16 hours at 23°C ± 2°C (73.4°F ± 2°F) and 50% ± 5% RH

BRIEF DESCRIPTION OF TEST: Test cushions are placed in a test frame to form a mockup of an upholstered chair. A lighted cigarette is placed in the crevice formed by the seat and back cushion. Test observations are made and results are recorded.

DETAILED RESULTS

Reporting Categories	Initial Test	Repeat Test
All smouldering (heat, smoke, or glowing) ceased after [mm:ss]:	14:54	16:13
Farthest extent of smouldering/flaming --		
Left of ignition source [mm]:	3	2
Right of ignition source [mm]:	2	2
Forward of ignition source [mm]:	2	2

Received:06/12/2007	Completed:06/25/2007	Letter: H12	rb	P.O.#:	Test Report #: 2-67652-0-13-DU1
Client's Identification:	Patty Madden Software - Aspen				
Tested For:	Patty Madden Software				Key Test: BS EN 1021-1 1994 DURC 25
				Tel: 1-( )- -	Ext:
				Fax: 1-( )- -	

SUMMARY RESULTS

Ignition Criteria:	Initial Test (yes/no)	Repeat Test (yes/no)
-----	-----	-----
Smouldering --		
Unsafe escalating combustion (3.1a):	No	No
Test assembly consumed (3.1b):	No	No
Smoulders to extremities (3.1c):	No	No
Smoulders through thickness (3.1c):	No	No
Smoulders more than 1 hour (3.1d):	No	No
Smoulders more than 100 mm from source [except upwards] (3.1e):	No	No
Flaming --		
Unsafe escalating combustion (3.2a):	No	No
Test assembly consumed (3.2b):	No	No
Flames to extremities (3.2c):	No	No
Flames through thickness (3.2c):	No	No

SUMMARY RESULTS EXPLAINED: If "Yes" is entered for any category, the report must conclude that ignition did occur.

ABBREVIATIONS WHICH MAY BE USED:

- N/O = Not observed.
- NT = Not tested.
- EC = Escalating combustion; test extinguished by technician at \_\_:\_\_ (mm:ss) when unsafe escalating combustion was noted.

COMMENTS: None.

Received:06/12/2007	Completed:06/25/2007	Letter: H12	rb	P.O.#:	Test Report #: 2-67652-0-13-DU1
Client's Identification	Patty Madden Software - Aspen				
Tested For:	Patty Madden Software			Key Test: BS EN 1021-1 1994 DURC	25
				Tel: 1-( )- -	Ext:
				Fax: 1-( )- -	

CONCLUSION: The above Results indicate that:

- Ignition Criteria did occur
- Ignition Criteria did not occur

PROVISO: The test conducted herein is based on a prototype composite using a candidate upholstery covering fabric and a standard filling material. The results displayed by the candidate upholstery fabric may differ when used in an actual item of upholstered furniture, since other variables may affect the fire performance properties. Other variables may consist of: different filling materials; fire blocking materials; furniture geometry; and other furniture components.

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified by BS EN 1021-1: 1994.

*Heather E. Robertson*

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**MS. HEATHER ROBERTSON**

Received:06/12/2007	Completed:06/25/2007	Letter: H13	rb	P.O.#:	Test Report #: 2-67652-0-13-DU-1
Client's Identification	Patty Madden Software - Aspen				
Tested For:	Patty Madden Software				Key Test: BS EN 1021-2 1994 DUNC
				Tel: 1-( )- -	Ext:
				Fax: 1-( )- -	

PC: 16H

TEST PERFORMED: British Standard BS EN 1021-2: 1994  
Furniture - Assessment of the Ignitability of Upholstered Furniture, Part 2

IGNITION SOURCE:

Match flame equivalent (15 seconds butane flame)

TEST ITEM COMPOSITE:

Client's cover fabric: (see "Client's Identification" section above)

Suggested filling material:

- Non flame retardant flexible polyether foam 22 kg/m<sup>3</sup> (1.4 lb/ft<sup>3</sup>)
- Flame retardant polyurethane foam, 45 kg/m<sup>3</sup> (2.8 lb/ft<sup>3</sup>), Code Red II 35
- Non flame retardant flexible polyether foam 22 kg/m<sup>3</sup> (1.4 lb/ft<sup>3</sup>), wrapped with Sandel Style 12701-14502 fire blocking material (4.7 ± 0.5 oz/yd<sup>2</sup>)

OVER FABRIC WATER SOAKED PRIOR TO TESTING IN ACCORDANCE WITH ANNEX D:  Yes  
 No

RECONDITIONING:

16 hours at 23°C ± 2°C (73.4 ± 2°C) and 50% ± 5% RH

BRIEF DESCRIPTION OF TEST:

Test cushions are placed in a test frame to form a mockup of an upholstered chair. A tube burner, fueled by butane, is placed in the crevice formed by the seat and back cushion so that the butane flame burns upwardly on the seat back for a period of 15 seconds. Test observations are made and results are recorded.

Received:06/12/2007	Completed:06/25/2007	Letter: H13	rb	P.O.#:	Test Report #: 2-67652-0-13-DU-1
Client's Identification	Patty Madden Software - Aspen				
Tested For:	Patty Madden Software		Key Test: BS EN 1021-2 1994 DUNC		
			Tel: 1-( )- -	Ext:	
			Fax: 1-( )- -		

DETAILED RESULTS \*

Reporting Categories		Initial Test	Repeat Test
Cover charred and ignited within	[mm:ss]:	00:04	00:03
Cover split/melted open after	[mm:ss]:	N/O	N/O
<del>Filling material ignited after</del>	<del>[mm:ss]:</del>	<del>N/O</del>	<del>N/O</del>
All flaming ceased after	[mm:ss]:	00:16	00:17
All smouldering (heat, smoke, or glowing) ceased after	[mm:ss]:	00:18	00:19
Farthest extent of smouldering --			
Left of ignition source	[mm]:	6	4
Right of ignition source	[mm]:	3	3
Forward of ignition source	[mm]:	3	4
Farthest extent of flaming --			
Left of ignition source	[mm]:	6	4
Right of ignition source	[mm]:	3	3
Forward of ignition source	[mm]:	3	4

Timing of values begins with the application of the igniting flame.)



Received:06/12/2007 Completed:06/25/2007 Letter: H13 rb P.O.#: Test Report #: 2-67652-0-13-DU-1

Client's Identification: Patty Madden Software - Aspen

Tested For: Patty Madden Software  
 Key Test: BS EN 1021-2 1994 DUNC  
 Tel: 1-( )- - Ext:  
 Fax: 1-( )- -

SUMMARY RESULTS

Ignition Criteria:	Initial Test (yes/no)	Repeat Test (yes/no)
Smouldering --		
Unsafe escalating combustion (3.1a):	NO	NO
Test assembly consumed (3.1b):	NO	NO
<del>Smoulders to extremities (3.1c):</del>	<del>NO</del>	<del>NO</del>
Smoulders through thickness (3.1c):	NO	NO
Smoulders more than 1 hour (3.1d):	NO	NO
Smoulders, within the filling, more than 100 mm from the source [except upwards] (3.1e):	NO	NO
Flaming --		
Unsafe escalating combustion (3.2a):	NO	NO
Test assembly consumed (3.2b):	NO	NO
Flames to extremities (3.2c):	NO	NO
Flames through thickness (3.2c):	NO	NO
Flaming more than 120 seconds after removal of burner tubes [includes flaming drip on floor] (3.2d):	NO	NO

"SUMMARY RESULTS" EXPLAINED: If "Yes" is entered for any category, the report must conclude that ignition did occur.

BREVIATIONS WHICH MAY BE USED:

- N/O = Not observed.
- NT = Not tested.
- EC = Escalating combustion; test extinguished by technician at \_\_:\_\_ (mm:ss) when unsafe escalating combustion was noted.

<b>Received:</b> 06/12/2007	<b>Completed:</b> 06/25/2007	<b>Letter:</b> H13	rb	<b>P.O.#:</b>	<b>Test Report #:</b> 2-67652-0-13-DU-1
<b>Client's Identification</b>	Party Madden Software - Aspen				
<b>Tested For:</b>	Party Madden Software		<b>Key Test:</b> BS EN 1021-2 1994 DUNC		
			<b>Tel:</b> 1-( )- -	<b>Ext:</b>	
			<b>Fax:</b> 1-( )- -		

COMMENTS: None.

CONCLUSION: The above Results indicate that:

Ignition Criteria did occur

Ignition Criteria did not occur

ROVISO: The test conducted herein is based on a prototype composite using a candidate upholstery covering fabric and a standard filling material. The results displayed by the candidate upholstery fabric may differ when used in an actual item of upholstered furniture, since other variables may affect the fire performance properties. Other variables may consist of: different filling materials; fire blocking materials; furniture geometry; and other furniture components.

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified by BS EN 1021-2: 1994.

*Heather E. Robertson*

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DU.7.5.07 /jd

**MS. HEATHER ROBERTSON**

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Received: 05/08/2007	Completed: 05/13/2007	Letter: H5	rb	P.O.#:	Test Report #: 2-67652-0-05-DU1
Client's Identification	Patty Madden Software - Aspen				
Tested For:	Patty Madden Software		Key Test: BIFMA X5.7 Fab Class DURC		25
			Tel: 1-( )- -	Ext:	
			Fax: 1-( )- -		

Test Category: Fabric Classification (Cigarette)      Specifier: BIFMA

TEST PERFORMED: BIFMA X5.7 - 1991 (previously BIFMA F-1-1978) Section 5 Fabric Classification Based on Cigarette Ignition Resistance

BRIEF DESCRIPTION OF TEST: The upholstery fabric under test is combined with standard filling materials. Composite test specimens are prepared simulating a chair seat and chair back. A lighted cigarette is placed in the crevice where the seat and the back of the chair meet.

Test #1: The filling material is a 1" glass fiberboard for both the seat and back.  
 Test #2: The filling material is a 1" glass fiberboard for the seat, and 2" untreated cotton batting for the back.

The test measures Char Length, which is the furthest progression of burning from any point of the cigarette.

RESULTS:	TEST #1:	TEST #2:
	Glass Fiberboard/Glass Fiberboard	Cotton Batting/Glass Fiberboard
	Char Length	Char Length
specimen #	(inches)	(inches)
-----	-----	-----
1	0.6	0.4
2	0.4	0.6
3	0.5	0.3

MARKS: None.

CONCLUSION: Based on the above Results the item tested is assigned a rating of:

Class A;    Class B;    Class C;    Class D

CERTIFICATION: I certify that the above results were obtained after testing in accordance with the procedures and equipment specified by BIFMA X5.7 - 1991 (previously BIFMA F-1-1978).

*Heather E. Robertson*

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Received: 05/08/2007	Completed: 05/13/2007	Letter: H5	rb	P.O.#:	Test Report #: 2-67652-0-05-DU1
Client's Identification	Patty Madden Software - Aspen				
Tested For:	Patty Madden Software			Key Test: BIFMA X5.7 Fab Class DURC	25
				Tel: 1-( )- -	Ext:
				Fax: 1-( )- -	

RESULT SUMMARY:	CLASS
-----	-----
Test 1: All Char Lengths are less than 1.5"	A
Test 2: All Char Lengths are less than 1.5"	
Test 1: All Char Lengths are less than 1.5"	B
Test 2: Any Char Length result exceeds 1.5"	
Test 1: Char Lengths range between 1.5" and 3.0"	C
Test 2: Not conducted, as values shown by Test 1 are sufficient to determine Class.	
Test 1: Any Char Length exceeds 3.0"	D
Test 2: Not conducted, as values shown by Test 1 are sufficient to determine Class.	

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Received: 05/08/2007	Completed: 05/13/2007	Letter: H6	rb	P.O.#:	Test Report #: 2-67652-0-06-DU1
Client's Identification	Patty Madden Software - Aspen				
Tested For:	Patty Madden Software				Key Test: NFPA 701-2004 TM#1 DURC 25
				Tel: 1-( )- -	Ext:
				Fax: 1-( )- -	

PC: 0.5H /jd

TEST PERFORMED: NFPA 701 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films - 2004 Edition - Test Method #1

As specified by State of Massachusetts 527 CMR 21.00  
Section 21.04 - Test Method for Curtains, Drapries, Blinds & Other Window Treatments

PRODUCT CONFIGURATION:  Single Layer;  Multi Layer

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

Specimen #	Afterflame* (seconds)	Flaming Drip (seconds)	Weight Loss (percent)	Flame Projects Above Top Of Specimen (yes/no)
1	0.0	0	2.4	No
2	0.0	0	6.3	No
3	0.0	0	23.7	No
4	20.7	0	18.6	No
5	17.0	0	5.4	No
6	0.0	0	22.2	No
7	15.6	0	5.8	No
8	0.0	0	2.0	No
9	0.0	0	2.6	No
10	0.0	0	5.8	No
	Mean: 0	Mean: 0	Mean: 9.5	

STATISTICAL VALUES: SD = 8.5      3 SD = 25.6      Mean + 3 SD = 35.1

DEVIATIONS USED: SD = Standard deviation.

APPROXIMATE WEIGHT OF MATERIAL (as measured by Govmark): 803 g/m<sup>2</sup>

CONDITIONING:  0.5 hr @ 220°F (Standard)  
 24 hrs @ 68±9°F (Alternate: Material shrinks/distorts @ 220°F)

CONVERSION FACTOR: g/m<sup>2</sup> ÷ 28.35 x .835 = oz/yd<sup>2</sup>

Notes:  
All specimens prepared in the length direction.  
See addendum for individual specimen weights.

RKS: None.

Received: 05/08/2007	Completed: 05/13/2007	Letter: H6	rb	P.O.#:	Test Report #: 2-67652-0-06-DU1
Client's Identification	Patty Madden Software - Aspen				
Tested For:	Patty Madden Software				Key Test: NFPA 701-2004 TM#1 DURC 25
				Tel: 1-( )- -	Ext:
				Fax: 1-( )- -	

FAILURE CRITERIA: As cited by NFPA 701 - 2004 Edition Test Method #1 (see Comments on page 3)

Afterflame	Flaming Drip (Mean)	Weight Loss (percent)	
		Mean	Individual Specimen
*	Exceeds 2 seconds	Exceeds 40%	Exceeds Mean + 3 SD

CONCLUSION: Based on the Results on page 1 and the above Failure Criteria cited by NFPA 701 - 2004 Edition Test Method #1, the item tested:

Passes;  Fails;  Requires testing of 10 additional specimens  
i.e. only one individual specimen failure was noted

REVISED FAILURE CRITERIA (see Comments on page 3):

Afterflame	Flaming Drip (Mean)	Weight Loss		Flame Height (Individual Specimen)
		Mean	Ind. Spec.	
*	Exceeds 2 seconds	Exceeds 40%	Exceeds 50%	Projects above top of specimen

CONCLUSION: Based on the Results on page 1 and the above Revised Failure Criteria, the item tested:

Passes;  Fails;  Requires testing of 10 additional specimens  
i.e. only one individual specimen failure was noted

Afterflame is required to be recorded; however, the NFPA document does not factor it into the Failure Criteria reporting requirements. It should be noted that excessive afterflames (15 seconds or more) could be cause for rejection by local fire authorities performing "match" field tests.

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified by NFPA 701 - 2004 Edition Test Method #1 with additional recording of flame height.

*Heather E. Robertson*

**MS. HEATHER ROBERTSON**

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Received:05/08/2007	Completed:05/13/2007	Letter: H6	rb	P.O.#:	Test Report #:	2-67652-0-06-DU1
Client's Identification	Patty Madden Software - Aspen					
Tested For:	Patty Madden Software				Key Test: NFPA 701-2004 TM#1 DURC	25
				Tel: 1-( )- -	Ext:	
				Fax: 1-( )- -		

COMMENTS:  
The Govmark Org., Inc. has determined to establish failure criteria over and above the criteria spelled out in the NFPA document. The rationale for the "revised" criteria is as follows:

Weight Loss - Individual Specimen Failure:  
-----

The NFPA 701 document, as written, provides for a statistical calculation which provides for retest and a potential failure if any individual value exceeds the mean by three standard deviations. Govmark is of the opinion that this cannot mathematically occur, i.e. no individual result is mathematically capable of exceeding the mean plus three standard deviations. Therefore, Govmark has established 50% as the absolute number for individual specimen criteria.

Individual Specimen - Flame Projects Above Top of Specimen:  
-----

When NFPA introduced the weight loss criteria, this was hailed as a more objective measure of product performance over previous editions, which relied on visual measurements of fire degradation. Unforeseen were those products which are composed of finishes over substantially non burning substrates. Intense flaming of the finishes occurs without substantially reducing the total weight of the specimen that was tested. It is believed that similar behavior of the intensely burning surface finishes on products made from such material could result in the ignition of nearby combustibles.

Received: 05/08/2007	Completed: 05/16/2007	Letter: H9	rb	P.O.#:	Test Report #: 2-67652-0-09-DU1
Client's Identification: Patty Madden Software - Aspen					
Tested For: Patty Madden Software			Key Test: IMO A.652(16) 8.2 DURC		25
			Tel: 1-( )- -		Ext:
			Fax: 1-( )- -		

PC: 16H jd

TEST PERFORMED: IMO Resolution A.652 (16) - Recommendation on Fire Test Procedures for Upholstered Furniture (Methods of Test for the Ignitability by Smokers' Materials of Upholstered Composites for Seating) - Section 8.2

IGNITION SOURCE: Smouldering cigarette

TEST ITEM COMPOSITE:

Cover Fabric --

- Client's cover fabric: (see "Client's Identification" section above)
- Standard cover fabric, 100% inherently flame retardant polyester fabric, approx. 220 g/m<sup>2</sup>

Filling Material --

- Standard filling material, as listed below:
  - Non flame retardant flexible polyether foam, 22 kg/m<sup>3</sup> (1.4 lb/ft<sup>3</sup>)
  - Flame retardant polyurethane foam, Code Red II 35, 45 kg/m<sup>3</sup> (2.8 lb/ft<sup>3</sup>)
  - Non flame retardant flexible polyether foam, 22 kg/m<sup>3</sup> (1.4 lb/ft<sup>3</sup>), wrapped with Uniguard fire blocking material

Client's filling material: \_\_\_\_\_

WATER SOAKING: Is not mandated by A.652(16)

RESULTS:	Progressive	
	Smouldering	Flaming
	(yes/no)	(yes/no)
	-----	-----
Initial Test:	No	No
Retest:	No	No

DEVIATIONS WHICH MAY BE USED: NT = Not tested.

REMARKS: None.



Received: 05/08/2007	Completed: 05/16/2007	Letter: H9	rb	P.O.#:	Test Report #: 2-67652-0-09-DU1
Client's Identification	Patty Madden Software - Aspen				
Tested For:	Patty Madden Software			Key Test: IMO A.652(16) 8.2 DURC	25
				Tel: 1-( )- -	Ext:
				Fax: 1-( )- -	

FAILURE CRITERIA:

Progressive smouldering or flaming within one hour after start of test.

CONCLUSION: Based on the above Results and Failure Criteria, the item tested:

Passes;  Fails

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified by IMO Resolution A.652(16).

*Heather E. Robertson*

AUTHORIZED SIGNATURE

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**MS. HEATHER ROBERTSON**

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Received: 05/08/2007	Completed: 05/16/2007	Letter: H10	rb	P.O.#:	Test Report #: 2-67652-0-10-DU1
Client's Identification	Patty Madden Software - Aspen				
Tested For:	Patty Madden Software				Key Test: IMO A.652(16) 8.3 DURC 25
				Tel: 1-( )- -	Ext:
				Fax: 1-( )- -	

PC: 16H jd

TEST PERFORMED: IMO Resolution A.652(16) - Recommendation on Fire Test Procedures for Upholstered Furniture (Methods of Test for the Ignitability by Smokers' Materials of Upholstered Composites for Seating) - Section 8.3

IGNITION SOURCE: 20 seconds butane flame

TEST ITEM COMPOSITE

Cover Fabric --

- Client's cover fabric: (see "Client's Identification" section above)
- Standard cover fabric, 100% inherently flame retardant polyester fabric, approx. 220 g/m<sup>2</sup>

Filling Material --

- Standard filling material:
  - Non flame retardant flexible polyether foam, 22 kg/m<sup>3</sup> (1.4 lb/ft<sup>3</sup>)
  - Flame retardant polyurethane foam, Code Red II 35, 45 kg/m<sup>3</sup> (2.8 lb/ft<sup>3</sup>)
  - Non flame retardant flexible polyether foam, 22 kg/m<sup>3</sup> (1.4 lb/ft<sup>3</sup>), wrapped with Uniguard fire blocking material

- Client's filling material:

WATER SOAKING: Not mandated by A.652(16)

RESULTS:	Flaming* (seconds)	Glowing* (seconds)	Smoking* (seconds)	Smoldering* (seconds)
	-----	-----	-----	-----
Initial Test:	1.0	0	8.9	0
Retest:	2.0	0	9.0	0

\* Values are reported after removal of burner tube ignition source.

REVISIONS WHICH MAY BE USED: NT = Not tested.

REMARKS: None.



<b>Received:</b> 05/08/2007	<b>Completed:</b> 05/16/2007	<b>Letter:</b> H10	rb	<b>P.O.#:</b>	<b>Test Report #:</b> 2-67652-0-10-DU1
<b>Client's Identification</b>	Patty Madden Software - Aspen				
<b>Tested For:</b>	Patty Madden Software			<b>Key Test:</b> IMO A.652(16) 8.3 DURC	25
				<b>Tel:</b> 1-( )- -	<b>Ext:</b>
				<b>Fax:</b> 1-( )- -	

**FAILURE CRITERIA:**

Flaming, glowing, smoking, or smouldering which exceeds 120 seconds.

**CONCLUSION:** Based on the above Results and Failure Criteria, the item tested:

Passes;  Fails

**CERTIFICATION:** I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified by IMO Resolution A.652(16).

*Heather E Robertson*

AUTHORIZED SIGNATURE

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**MS. HEATHER ROBERTSON**

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Received: 05/08/2007	Completed: 05/14/2007	Letter: H4	rb	P.O.#:	Test Report #: 2-67652-0-04-DU1
Client's Identification	Patty Madden Software - Aspen				
Tested For:	Patty Madden Software		Key Test: FAA 12-sec. Vert FAR 25.853(a) (Textiles) DURC		25
			Tel: 1-( )- -	Ext:	
			Fax: 1-( )- -		

Test Category: 12sec Vertical/Textiles Specifier: FAA PC: 24H

TEST PERFORMED: Vertical Test (12 seconds flame application) as per FAR Part 25, Appendix F, Part I(b)(4)

RESULTS ARE REPORTED:  Initially;  After laundering;  After dry cleaning

PRODUCT CATEGORY: Textiles

REFERENCE: For Certain Textile Products Used in Compartment Interiors Transport Category, Airplanes: FAR 25.853(a) and Appendix F Part I(a)(1)(ii) [previously FAR 25.853(b)]

RESULTS:	Specimen #	Afterflame (seconds)	Drip Burn (seconds)	Burn Length (inches)	Melt Length* (inches)
Machine:	1	3.6	0	4.1	0
	2	1.8	0	4.0	0
	3	4.2	0	4.0	0
	Avg	3.2	0	4.0	
Cross Machine:	4	2.8	0	3.7	0
	5	10.8	0	4.0	0
	6	2.0	0	3.6	0
	Avg	5.2	0	3.8	

NOTE: IN CERTAIN INSTANCES A PORTION OF THE MATERIAL UNDER TEST WILL BE DAMAGED BY THE BURNING PROCESS AND A FURTHER DEGRADATION WILL BE ATTRIBUTABLE TO SHRINKAGE OR MELTING AWAY FROM THE IGNITING ME. THE ACTUAL DAMAGED DISTANCE ATTRIBUTABLE TO BURNING IS ENTERED IN THE "BURN LENGTH" COLUMN. THE REDUCED/SHRINKAGE DISTANCE IS ENTERED IN THE "MELT LENGTH" COLUMN.

CONCLUSION: Based on the above Results and the Acceptance Criteria on page 2, the item tested:

Complies;  Does not comply



Received: 05/08/2007	Completed: 05/14/2007	Letter: H4	rb	P.O.#:	Test Report #: 2-67652-0-04-DU1
Client's Identification	Patty Madden Software - Aspen				
Tested For:	Patty Madden Software		Key Test: FAA 12-sec. Vert FAR 25.853(a) (Textiles) DURC		25
			Tel: 1-( )- -	Ext:	
			Fax: 1-( )- -		

REMARKS: None.

ACCEPTANCE CRITERIA:

Afterflame - 15.0 seconds maximum average  
Drip Burn - 5.0 seconds maximum average  
Burn Length - 8.0" maximum average

Note: Melt Length, when observed, is reported; however, it is not factored into the Acceptance Criteria.

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified by Code of Federal Regulations Title 14 Part 25, revised as of January 1, 2006.

*Heather E. Robertson*

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**MS. HEATHER ROBERTSON**

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Received: 05/08/2007	Completed: 05/14/2007	Letter: H3	rb	P.O.#:	Test Report #: 2-67652-0-03-DU1
Client's Identification	Party Madden Software - Aspen				
Tested For:	Party Madden Software				Key Test: FAA 12-sec. Vert FAR 25 DURC 25
					Tel: 1-( )- - Ext:
					Fax: 1-( )- -

Test Category: FAA 12 sec. Vert.      Specifier: Port Authority      PC: 24H

TEST PERFORMED: 12 Second Vertical Flame Application as per Part 25 Appendix F Part I(b)(4), as specified by the Port Authority of New York and New Jersey (Revised Jan. 1992)

- Specifications Governing the Flammability of Drapery and Curtain Materials:  
Results are reported:  Initially;  After 5 launderings;  After 5 dry cleanings
- Specifications Governing the Flammability of Upholstered Chairs, Benches, Couches, Banquettes, and Solid Plastic Chairs, Method 2 - Component Testing
- Specifications Governing the Flammability of Plastic Laminate and Wood Veneer Furniture, Paragraph 2, Free Standing Office Partitions, Subparagraph (b) Insulation and Covering Materials

RESULTS:	Specimen #	Afterflame (seconds)	Drip Burn (second)	Burn Length (inches)	Melt Length* (inches)
Length:	1	2.4	0	4.5	0
	2	1.0	0	2.4	0
	3	0.0	0	2.4	0
	Avg	1.1	0	3.1	
Width:	4	1.7	0	3.1	0
	5	4.6	0	2.1	0
	6	2.0	0	2.0	0
	Avg	2.8	0	2.4	

NOTE: IN CERTAIN INSTANCES A PORTION OF THE MATERIAL UNDER TEST WILL BE DAMAGED BY THE BURNING PROCESS AND A FURTHER DEGRADATION WILL BE ATTRIBUTABLE TO SHRINKAGE OR MELTING AWAY FROM THE IGNITING FLAME. THE ACTUAL DAMAGED DISTANCE ATTRIBUTABLE TO BURNING IS ENTERED IN THE "BURN LENGTH" COLUMN. THE MELTED/SHRINKAGE DISTANCE IS ENTERED IN THE "MELT LENGTH" COLUMN.

CONCLUSION: Based on the above Results and the Acceptance Criteria on page 2, the item tested:

Complies;  Does not comply

(see page 2 for Remarks, Acceptance Criteria, & Certification)



Received: 05/08/2007	Completed: 05/14/2007	Letter: H3	rb	P.O.#:	Test Report #: 2-67652-0-03-DU1
Client's Identification	Patty Madden Software - Aspen				
Tested For:	Patty Madden Software		Key Test: FAA 12-sec. Vert FAR 25 DURC		25
			Tel: 1-( )- -	Ext:	
			Fax: 1-( )- -		

REMARKS: None.

ACCEPTANCE CRITERIA:

- Afterflame - 15.0 Seconds Maximum Average
- Drip Burn - 5.0 Seconds Maximum Average
- Burn Length - 8.0" Maximum Average

Note: Melt Length, when observed, is reported; however, it is not factored into the Acceptance Criteria.

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified by Code of Federal Regulations Title 14 Part 25, revised as of January 1, 2006.

*Heather E. Robertson*

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**MS. HEATHER ROBERTSON**

Received: 05/08/2007	Completed: 05/16/2007	Letter: H2	rb	P.O.#:	Test Report #: 2-67652-0-02-DU1
Client's Identification	Patty Madden Software - Aspen				
Tested For:	Patty Madden Software			Key Test: BFD IX-1 DURC	25
				Tel: 1-( )- -	Ext:
				Fax: 1-( )- -	

PC: NS /md

TEST PERFORMED:  
BFD IX-1 Boston Fire Department Classification Fire Test

TESTED:  Initially  
 After 3 dry cleanings  
 After 5 launderings @ 160°F

RESULTS:	Specimen #	Afterflame (seconds)	Flame Propagation Distance (inches)	Propagation Afterglow (seconds)	Non Propagating Afterglow (seconds)
Length:	1	1.0	2.7	0	0
	2	1.0	2.0	0	0
	3	0.0	1.8	0	0
Width:	4	1.8	2.3	0	0
	5	2.0	2.2	0	0
	6	2.3	1.5	0	0

ACCEPTANCE CRITERIA:

1. Afterflame: 2.0 seconds maximum
2. Flame Propagation Distance: 6.0" maximum
3. Propagation Afterglow: 40.0 seconds maximum
4. Non Propagating Afterglow: 80.0 seconds maximum

CONCLUSION: Based on the above Results and Acceptance Criteria --

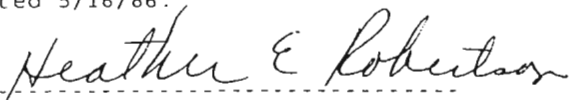
The item tested:  Complies;  Does not comply



Received: 05/08/2007	Completed: 05/16/2007	Letter: H2	rb	P.O.#:	Test Report #: 2-67652-0-02-DU1
Client's Identification	Patty Madden Software - Aspen				
Tested For:	Patty Madden Software			Key Test: BFD IX-1 DURC	25
				Tel: 1-( )- -	Ext:
				Fax: 1-( )- -	

REMARKS: None.

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified by BFD IX-1 Boston Fire Department Classification Fire Test dated 5/16/86.



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**MS. HEATHER ROBERTSON**

(Page 2 of 2)

Received: 05/08/2007	Completed: 05/14/2007	Letter: H1	rb	P.O.#:	Test Report #: 2-67652-0-01-DU1
Client's Identification	Patty Madden Software - Aspen				
Tested For:	Patty Madden Software				Key Test: CFR 49 571.302 (FMVSS 302) DURC 25
				Tel: 1-( )- -	Ext:
				Fax: 1-( )- -	

PC: 24H /jd

TEST PERFORMED: CFR Title 49 Chapter V Part 571.302 (FMVSS 302) - Flammability of Materials Used in the Interior of Motor Vehicle Occupant Compartments

SPECIFIER: D.O.T.

RESULTS:	Specimen #	Time to Reach 38 mm BM (seconds)	Burning Time Beyond 38 mm BM (seconds)	Burn Distance Beyond 38 mm BM (mm)	Burn Rate (mm/minute)	Code
Length:	1	0	0	0	0	SE
	2	0	0	0	0	SE
	3	0	0	0	0	SE
	4	0	0	0	0	SE
Width:	5	0	0	0	0	SE
	6	0	0	0	0	SE
	7	0	0	0	0	SE
	8	0	0	0	0	SE

Indicates that burning time beyond 38 mm exceeds 240 seconds; the test was terminated by the technician at time noted. The burn rate was calculated at the terminated distance.

PECIMEN HOLDER:

- Standard
- Modified, 10 mil wire spaced at 25 mm intervals across 51 mm width opening:
  - Test item was less than 56 mm wide
  - Specimen softens and bends at flaming end, which results in erratic burning

METRIC CONVERSION: mm ÷ 25.4 = inches

FAILURE CRITERIA: Burn Rate exceeds 102 mm per minute for any specimen.

CONCLUSION: Based on the above Results and Failure Criteria, the item tested:

- Passes;  Fails

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified by CFR Title 49 Chapter V Section 571.302 (FMVSS 302).

*Heather E. Robertson*

AUTHORIZED SIGNATURE

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**MS. HEATHER ROBERTSON**

Received:05/08/2007	Completed:05/14/2007	Letter: H1	rb	P.O.#:	Test Report #:	2-67652-0-01-DU1
Client's Identification	Patty Madden Software - Aspen					
Tested For:	Patty Madden Software				Key Test: CFR 49 571.302 (FMVSS 302) DURC	25
				Tel: 1-( )- -	Ext:	
				Fax: 1-( )- -		

ABBREVIATION/CODE DEFINITIONS:

- DNI - Does Not Ignite. Specimen does not support combustion during or after ignition.
- DNO - Did Not Occur.
- SE - Self-Extinguishing. Specimen ignites but does not burn to the timing zone, which starts at 38 mm.
- SE/NBR - Self-Extinguishing/No Burn Rate. Specimen ignites; burning progresses to the 38 mm timing start line and extinguishes within 51 mm beyond the start line. Time of burning after passing 38 mm is less than 60 seconds.
- SE/(B) - Self-Extinguishing/With a Burn Rate. Specimen ignites; burning progresses to the 38 mm timing start line and extinguishes within 51 mm beyond the start line. Time of burning after passing 38 mm is greater than 60 seconds. Calculated burn rate is 51 mm per minute or less.
- B - Specimen ignites. Burning progresses more than 51 mm beyond the 38 mm timing start line. Burn rate is calculated.

EMARKS: None.

Note: The original version of FMVSS 302 was expressed in English Units with a maximum burn rate of 4 inches per minute. When the U.S. government converted the document to the metric system, they used 102 mm per minute as the maximum burn rate, rather than the exact conversion (4"/minute x 25.4 = 101.6 mm/minute).

Received: 05/08/2007 Completed: 05/13/2007 Letter: H8 rb P.O.#: Test Report #: 2-67652-0-08-DU1

Client's Identification: Patty Madden Software - Aspen

Tested For: Patty Madden Software  
 Key Test: NFPA 260 Cover Fabric (BLDG) 25  
 DURC  
 Tel: 1-( )- - Ext:  
 Fax: 1-( )- -

Test Category: NFPA 260 Fabric Specifier: Bldg. Codes PC: 4H /jd

TEST PERFORMED: NFPA 260 Standard Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture; Cover Fabric Test

RESULTS:	TEST		RETEST (If Required)	
	Ignition (yes/no/SE)	Char Length On Vertical Panel (mm)	Ignition (yes/no/SE)	Char Length On Vertical Panel (mm)
Specimen #				
1	SE	10	SE	12
2	SE	8	SE	10
3	SE	10	SE	10

ABBREVIATION WHICH MAY BE USED:

SE: Indicates that the cigarette self extinguished prior to burning its entire length. When this occurs, a "retest" of that specimen is performed.

MARKS: None.

CLASSIFICATION SYSTEM:

Class I - For each specimen: No obvious ignition; maximum char length 45 mm (1.75").  
 (Indicates propensity to resist cigarette ignition in conjunction with standard foam filling material.)

Class II - For any specimen: Obvious ignition; or char length exceeding 45 mm (1.75").  
 (Indicates inability to resist cigarette ignition in conjunction with standard foam filling material.)

CONCLUSION: Based on the above Results and Classification System, the item tested is assigned a:

Class I rating  Class II rating

Received: 05/08/2007	Completed: 05/13/2007	Letter: H8	rb	P.O.#:	Test Report #: 2-67652-0-08-DU1
Client's Identification	Patty Madden Software - Aspen				
Tested For:	Patty Madden Software		Key Test: NFPA 260 Cover Fabric (BLDG) DURC		25
			Tel: 1-( )- -	Ext:	
			Fax: 1-( )- -		

CODE INFORMATION: In accordance with --

- (1) The 2006 Edition of the NFPA Life Safety Code 101, paragraph 10.3.2.1(1);
- (2) The 2006 Edition of the International Fire Code, paragraph 805.1.1.1, 805.2.1.1 and 805.3.1.1

Upholstered furniture components shall be Class I when tested in accordance with NFPA 260, when used in:

- Detention or correctional occupancy
- Health care occupancy
- Residential board & care occupancy

In certain situations an exception is made if the rooms or areas are sprinklered.

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified by NFPA 260.

*Heather E. Robertson*

AUTHORIZED SIGNATURE  
 THE GOVMARK ORGANIZATION, INC. /jd

**MS. HEATHER ROBERTSON**

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