

**CERTIFICATE OF TESTING**

For the Account Of: Creation Baumann  
979 Third Avenue  
Suite 1522  
New York, NY 10022

Contact:

Client's Identification: Outdoor Haiti

**TEST PERFORMED** Breaking Strength and Elongation of Textile Fabrics (Grab Test) ASTM D5034-09(2013)(G-E)

**TEST RESULTS**

Specimen	Breaking Force (lbf)	
1	381	
2	389	
3	375	
4	387	
5	373	
		<b>Avg of Warp: 381</b>
6	196	
7	198	
8	198	
9	204	
10	196	
11	198	
12	190	
13	200	
		<b>Avg of Fill: 198</b>

**NOTES**

**Equipment Used:** Tinius Olson H5KT Universal Testing Machine  
**Load Cell Maximum:** 1000 pounds  
**Jaw Size:** 1 inch x 1 inch (face and back), rubber coated  
**Test Conditions:** 70 ±4°F, 65 ±5% Relative Humidity  
**Sampling Method:** As Received

**ACCEPTANCE CRITERIA**

<b>A.C.T. Standard</b>	<b>Acceptance Criteria</b>
Upholstery	50 pounds minimum
Panels and Upholstered Walls	35 pounds minimum

**CERTIFICATION** I certify that the above results were obtained after testing specimen in accordance with the procedures and equipment specified by the standard stated above.

  
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 Authorized Signature CR



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**TEST PERFORMED** Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Brush Pilling Tester  
ASTM D3511/D3511M-16

**TEST RESULTS**

	Rating
Left	1.0
Center	1.0
Right	1.0
Average	1.0

**RATING SYSTEM**

- Class 5.0 No Pilling
- Class 4.0 Slight Pilling
- Class 3.0 Moderate Pilling
- Class 2.0 Severe Pilling
- Class 1.0 Very Severe Pilling

**NOTES**

- Test Conditions:** 70 ±4°F, 65 ±5% Relative Humidity
- Sampling Method:** As Received
- Viewing Apparatus:** Macbeth Lightbooth
- Viewing Option:** 45 degree
- Rating Standard:** ADJD3512 Photographic Standards
- Running Times:** 4 minutes brushing / 2 minutes pilling

**ACCEPTANCE CRITERIA**

- A.C.T. Standard:** Acceptance Criteria
- Upholstery Class 3 minimum

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**TEST PERFORMED** California Technical Bulletin 117: June 2013 – Requirements, Test Procedure and Apparatus for Testing the Smolder Resistance of Materials Used in Upholstered Furniture – Cover Fabric Test

**TEST RESULTS**

Specimen	Char Length (in)	Extinguished in 45 minutes? (Y/N)
1	0.8	Y
2	0.6	Y
3	0.7	Y

**NOTES**

Test Conditions: 70 ±5°F, 50 ±5% Relative Humidity

**ACCEPTANCE CRITERIA**

A material is considered to pass or fail based on the following criteria:

1. A single mock-up test specimen fails to meet the requirements of this test procedure if any of the following criteria occurs:
  - a. The mock-up test specimen continues to smolder after the 45 minute test duration
  - b. A vertical char length of more than 1.8 inches (45mm) develops on the cover fabric
  - c. The mock-up test specimen transitions to open flaming
2. The cover fabric passes the test if three initial mock-up specimens pass the test, i.e. the cigarettes burn their full length and are no longer smoldering
3. If more than one initial specimen fails, the cover fabric fails the test
4. If any one of the three initial specimens fails, repeat the test on additional three specimens
5. If all three additional specimens pass the test, the cover fabric passes the test. If any one of the additional three specimens fails, the cover fabric fails the test

**CONCLUSION**

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

- Pass
- Fail

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**TEST PERFORMED** Colorfastness to Light AATCC Test Method 16.3-2014, Option 3

**TEST RESULTS**

<b>Rating</b>	<b>Number Of Hours</b>
Class 5.0	40

**RATING SYSTEM**

- Class 5 No fading or color change
- Class 4 Slight fading or color change
- Class 3 Noticeable fading or color change
- Class 2 Considerable fading or color change
- Class 1 Much fading or color change

**NOTES**

**Light Source:** Xenon –Arc, Water Cooled, Continuous Light  
**Scale Used for Evaluation:** AATCC Gray Scale for Color Change

**ACCEPTANCE CRITERIA**

<b>A.C.T. Standard</b>	<b>Acceptance Criteria</b>
Upholstery	Class 4 minimum – 40 hours
Direct Glue Wallcoverings	Class 4 minimum – 40 hours
Panels and Upholstered Walls	Class 4 minimum – 40 hours
Draperies	Class 4 minimum – 60 hours

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**TEST PERFORMED** Colorfastness to Wet & Dry Crocking AATCC 8-2013

**TEST RESULTS**

**Dry Crocking** Class 4.5\*  
**Wet Crocking** Class 4.5\*

*\*very light*

**RATING SYSTEM**

- Class 5 No color transfer
- Class 4 Slight color transfer
- Class 3 Moderate color transfer
- Class 2 Considerable color transfer
- Class 1 Much Color transfer

**NOTES**

Scale Used for Evaluating: AATCC Chromatic Transference Scale

**ACCEPTANCE CRITERIA**

**A.C.T. Standard**

- Upholstery
- Direct Glue Wallcoverings
- Panels and Upholstered Walls
- Draperies (Solid)
- Draperies (Print)

**Acceptance Criteria (Dry)**

- Class 4 minimum
- Class 3 minimum
- Class 3 minimum
- Class 4 minimum
- Class 4 minimum

**Acceptance Criteria (Wet)**

- Class 3 minimum
- Class 3 minimum
- Class 3 minimum
- Class 3 minimum
- Class 3 minimum

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**TEST PERFORMED** Resistance to Slippage of Yarns in Woven Fabrics Using a Standard Seam ASTM D4034-92

**TEST RESULTS**

Specimen	Warp Yarn Slippage (lbf)	SB	Fill Yarn Slippage (lbf)	SB
1	89.0	SB	117.0	SB
2	97.2	SB	108.0	SB
3	94.9	SB	122.0	SB
4	97.3	SB	104.0	SB
5	84.8	SB	110.0	SB
<b>Average</b>	<b>92.6</b>		<b>112.2</b>	

**ABBREVIATIONS USED**

**SB** Seam broke before 1/4" slippage - Results should reflect this  
**SS** 1/4" slippage occurred - Note: Actual slippage of yarns is visible  
**FB** Fabric broke before 1/4" slippage - Note: Actual breakage is visible

**NOTES**

**Equipment Used:** Tinius Olson H5KT Universal Testing Machine

**Seam Description:**

**Seam Type** Standard Lockstitch  
**Stitches per Inch** 7 ± 0.5 stitches per inch  
**Needle Used** Size 22 NM: 140, 135x17 ball point needle  
**Thread** Nymo EX Bonded Nylon thread; 5x is used for the bobbin and 8x is used for the needle

**ACCEPTANCE CRITERIA**

**A.C.T. Standard** Upholstery  
**Acceptance Criteria** 25 lbs. Minimum

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**TEST PERFORMED** Abrasion Resistance of Textile Fabrics (Oscillatory Cylinder Method) ASTM D4157-13

**TEST RESULTS**

<b>Number of Double Rubs</b> 5,000	<b>Warp (Length) Specimens</b> Breakage occurred	<b>Fill (Width) Specimens</b> Breakage occurred
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**INTERPRETATION USED**

- Option 1 The end point is reached on a woven fabric when two or more yarns have broken or on a knitted fabric, when a hole appears.
- Option 2 The end point is reached when there is a change in shade or appearance that is sufficient to cause a customer to complain.

**NOTES**

**Abradant Used:**  ACT Standard #10 Cotton Duck  Wire Screen

**Samples Backed with Masking Tape:**  Yes  No

**Tension:** 4 pounds

**Compression:** 3 pounds

**ACCEPTANCE CRITERIA**

<b>A.C.T. Standard</b>	<b>Acceptance Criteria</b>
General Contract Upholstery	No appreciable breakage or wear after 15,000 double rubs
Heavy Duty Upholstery	No appreciable breakage or wear after 30,000 double rubs

**CONCLUSION**

Based on the above Results and the A.C.T. Standard, the item tested:

- Unrated
- General Contract Upholstery
- Heavy Duty Upholstery

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