[redacted]

CORPORATE EXPRESS TEST REPORT

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description	: HIGH BACK LEATHER CHAIR
Countries of Sale	: U.S.A & CANADA
Item No.	: CEG3153AP001
Atico Item No.	: W94E0538
SKU# /NBE#	: SW-2097HL
Buying Agent	: [redacted]
Vendor	: [redacted]
Manufacturer	: [redacted]
Color/ Style	: BLACK
Country of Origin	: CHINA
Sample Receiving Date	: Jun 27, 2006
Sample Resubmission Date	: Oct 24, 2006 & Oct 31, 2006`
Test Performing Date	: Sep 30, 2006 to Nov 02, 2006
Test Result(s)	: For further details, please refer to the following page(s)

Signed for and on behalf of
SGS-CSTC Co., Ltd.

Sunny Sun
Engineer

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Test Properties	PASS	CAR	FAIL	COMMENTS
Labeling – Packaging (If Applicable)	√			
Labeling – Product (If Applicable)	√			
Physical Characteristics	√			
Construction Quality	√			
Performance	√			
Upholstery / Leather (If Applicable)	√			
Flammability	√			
Analytical	√			
Package Test – ISTA 1A	√			

To be continued…

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Test Conducted:
I. SGS Protocol (No. SGS-CE-201)

Test Item	Test Method	Test requirements	Test Result	Rating
LABELING				
Labeling / Packaging Review (If Applicable)	FPLA 16 CFR 500	Should be legibly marked with the following information: • Distributor's name, trademark or other means of identification of the manufacturer or packer & address (City, State & Zip) • Product identification • Net quantity of the contents in terms of weight, measure or numerical count (Metric & US Standard) or a combination so as to give accurate information and facilitate value comparison by the consumer • Country of origin (if imported)	Complied	Pass
Verify Label Claims	Visual Check	The labeling must comply and valid with all claims.	Complied	Pass
Assembly, Use and Care Instructions	Visual Check	Include, if required for safe use.	Complied	Pass
PHYSICAL CHARACTERISTICS				
Dimensions (L x W x H) (in.)	Std. Measure	Report Actual (-0/+1/4"):	28½" x 29¼" x46½"/49½"	---
Total Weight (lb)	Std. Measure	Report Actual (-0/+3%):	54.05 lb.	---
CONSTRUCTION QUALITIES				
Workmanship Review	Visual Check	• All components shall be provided as claimed and shall not be deformed or fractured. • All hardware shall be provided • All welds shall be smoothly finished and free from pits and splatter • All components shall not contain any burrs or sharp edges (test by touch or sight) • Product shall not contain any loose components or unsecured fastening where rigidity is required	Complied	Pass
PERFORMANCE				
Back Strength Test - Static - Type I (Functional Load)	ANSI/BIFMA X5.1 -2002 Clause 5.4	No loss of serviceability when 890N (200lbs.) is applied for 1 min. Applied 90° to the back at 16in. above the seat.	Complied	Pass
Back Strength Test - Static - Type I (Proof Load)	ANSI/BIFMA X5.1 -2002 Clause 5.4	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1334N (300lbs.) is applied for 1 min. Applied 90° to the back at 16in. above the seat.	Complied	Pass

To be continued…

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Test Item	Test Method	Test requirements	Test Result	Rating
Back Strength Test - Static - Type II & III (Functional Load)	ANSI/BIFMA X5.1 -2002 Clause 6.4	No loss of serviceability when 667N (150lbs.) is applied for 1 min. Applied 90° to the back at 16in. above the seat.	Complied	Pass
Back Strength Test - Static - Type II & III (Proof Load)	ANSI/BIFMA X5.1 -2002 Clause 6.4	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1112N (250lbs.) is applied for 1 min. Applied 90° to the back at 16in. above the seat.	Complied	Pass
Base Test – Static	ANSI/BIFMA X5.1 -2002 Clause 7	No sudden and major change in the structural integrity under 11,120N (2500lbs.) compressions for 1 min. The weight is then removed and reapplied for 1 min. The center column may not touch the test platform during load applications.	Complied	Pass
Drop Test – Dynamic (Functional Load)	ANSI/BIFMA X5.1 -2002 Clause 8.4	No loss of serviceability when 102kg (225lbs.) weight free falls from 6in. height to the center of the seat.	Complied	Pass
Drop Test Dynamic (Proof Load)	ANSI/BIFMA X5.1 -2002 Clause 8.4	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 136kg (300lbs.) weight free falls from 6in. height to the center of the seat.	Complied	Pass
Swivel Test - Cyclic	ANSI/BIFMA X5.1 -2002 Clause 9	No loss of serviceability after 60,000cycles of rotation (360°) under a 102kg (225lbs.) load on the seat at its max. height. Seat shall then withstand another 60,000cycles of rotation at its lowest seating position. Total 120,000cycles.	Complied	Pass
Tilt Mechanism Test – Cyclic – Type I & II	ANSI/BIFMA X5.1 -2002 Clause 10	No loss of serviceability after 300,000cycles under a 102kg (225lbs.) load to the center of the seat	Complied	Pass
Impact Test – Cyclic	ANSI/BIFMA X5.1 -2002 Clause 11.3	No loss of serviceability in 100,000cycles impact. A weight of 57kg (125lbs.) free falls onto the seat from 1 in. height.	Complied	Pass
Front Corner Load Ease Test –Cyclic – off Center	ANSI/BIFMA X5.1 -2002 Clause 11.4	No loss of serviceability after load each seat front corner with 734N (165 lbs.) for 20,000 cycles, total 40,000 cycles. Note: this test is done after “Impact test” on the same sample.	Complied	Pass
Stability Test – Rear Stability	ANSI/BIFMA X5.1 -2002 Clause 12.3	A 79kg (173lbs.) weight is placed to the seat center (strapped as Fig. 12a). Obstruct the chair casters/legs with 13mm (½in.) obstacle. A tipping force is applied to the chair back until the total weight is transferred to the rear support members. The tipping force shall not be less than: Type I and II –89N (20 lbs.) Type III –156N (35 lbs.)	The tipping force was more than 89N.	Pass

To be continued…

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Test Item	Test Method	Test requirements	Test Result	Rating
Stability Test – Front Stability	ANSI/BIFMA X5.1 -2002 Clause 12.4	The chair is obstructed with a 13mm (½ in.) obstruction to the chair casters/legs. A downward load of 600N (135lbs.) is centered 60mm (2.4in.) from the seat front center edge. The seat shall withstand a 20N (4.5lbf.) horizontally from the front seat edge without tipping.	No tipping	Pass
Arm Strength Test Vertical - Static (Functional Load)	ANSI/BIFMA X5.1 -2002 Clause 13.4	No loss of serviceability when 890N (200lbs.) is applied for 1 min. The vertical load is uniformly applied along a 127mm (5in.) length at the apparent weakest point.	Complied	Pass
Arm Strength Test Vertical-Static (Proof Load)	ANSI/BIFMA X5.1 -2002 Clause 13.4	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1334N (300lbs.) is applied for 1 min. The vertical load is uniformly applied along a 127mm (5 in.) length at the apparent weakest point.	Complied	Pass
Arm Strength Test Horizontal –Static (Functional Load)	ANSI/BIFMA X5.1 -2002 Clause 14.4	No loss of serviceability when 445N (100lbs.) for 1 min. is applied horizontally outward to the armrest at the most forward point of the armrest.	Complied	Pass
Arm Strength Test Horizontal - Static (Proof Load)	ANSI/BIFMA X5.1 -2002 Clause 14.4	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 667N (150lbs.) for 1 min. is applied horizontally outward to the armrest at the most forward point of the armrest.	Complied	Pass
Back Durability Test – Cyclic – Type I	ANSI/BIFMA X5.1 -2002 Clause 15	No loss of serviceability in 120,000 cycles with a 102kg (225lbs.) in the center of the seat and a 445N (100lbf.) 90° to the center of the chair back. For chairs with a back width greater than 406mm (16in.), test at the center of chair back for 80,000cycles and then 102mm (4in.) off-center 40,000 cycles, half to each side.	Complied	Pass
Back Durability Test – Cyclic – Type II & III	ANSI/BIFMA X5.1 - 2002 Clause 16	No loss of serviceability in 120,000 cycles with a 102kg (225lbs.) in the center of the seat and a 334N (75lbf.) 90° to the center of the chair back. For chairs with a back width greater than 406mm (16in.), test at the center of chair back for 80,000cycles and then 102mm (4in.) off-center 40,000 cycles, half to each side.	Complied	Pass
Caster / Chair Base Durability Test for Pedestal Base Chair	ANSI/BIFMA X5.1 -2002 Clause 17.1	No loss of service after 2,000cycles over a hard surface with 3 obstacles and 98, 000cycles over a smooth hard surface without obstacles under a 102kg (225lbs.) load on the seat. Test stroke is 762mm (30in.) minimum. The caster should not separate under 22N (5lbs.) pulling force in line with the caster stem after the cycling test.	Complied	Pass

To be continued…

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Test Item	Test Method	Test requirements	Test Result	Rating
Caster / Chair Base Durability Test for Chairs with Legs	ANSI/BIFMA X5.1 -2002 Clause 17.2	No loss of service after 2,000cycles over a hard surface with 2 obstacles and 98, 000cycles over a smooth hard surface without obstacles under a 102kg (225lbs.) load on the seat. Test stroke is 762mm (30in.) minimum. The caster should not separate under 22N (5lbs.) pulling force in line with the caster stem after the cycling test.	NA	---
Leg Strength Test -Front Load (Functional Load)	ANSI/BIFMA X5.1 -2002 Clause 18.3	No loss of serviceability when a force of 334N (75lbf.) is applied to each front leg individually for 1 minute.	NA	---
Leg Strength Test-Front Load (Proof Load)	ANSI/BIFMA X5.1 -2002 Clause 18.3	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when a force of 556N (125lbf.) is applied to each front leg individually for 1 minute.	NA	---
Leg Strength Test -Side Load (Functional Load)	ANSI/BIFMA X5.1 -2002 Clause 18.4	No loss of serviceability when a force of 334N (75lbf.) is applied once to each front and rear leg individually for 1 minute.	NA	---
Leg Strength Test -Side Load (Proof Load)	ANSI/BIFMA X5.1 -2002 Clause 18.4	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when a force of 512N (115lbf.) is applied once to the front and rear leg individually for 1 minute.	NA	---
Footrest Durability Test	ANSI/BIFMA X5.1 -2002 Clause 19	No loss of serviceability after 50,000cycles of a 890N (200lbf) load vertical along 102mm (4in.) length of the footrest at the apparent weakest point of the structure.	NA	---
Arm Durability Test-Cyclic	ANSI/BIFMA X5.1 -2002 Clause 20	No structural breakage or loss of serviceability when a force of 400N (90lbf.) is applied to each arm at a 10º angle ±1º for 60,000cycles	Complied	Pass
Out Stop Tests for Chairs with Manually Adjustable Seat Depth	ANSI/BIFMA X5.1 -2002 Clause 21	Place a 70 kg (154 lb) rigid mass in the center of the seat. Hold the seat at its most position. A cable is attached to the most rigid point of the vertical centerline of the seat. Hang a weight of 25 kg (55 lb) on the opposite end of the cable. Release the weight so it can drag the seat move forward rapidly and impact	NA	---
Tablet Arm Static Load Test	ANSI/BIFMA X5.1 -2002 Clause 22	Apply a load of 68 kg (150 lb) at the apparent weakest position for 5 minutes and remove the load. No sudden and major change in the chair when the application of the load.	NA	---
Tablet Arm Load Ease Test - Cyclic	ANSI/BIFMA X5.1 -2002 Clause 23	No loss of serviceability to the unit after loading the tablet surface with a weight of 35 kg (77 lb) for a total 100,000 cycles.	NA	---
Moisture Content (Wood Only)	ASTM D4442	Shall be 4%~13%.	NA	---
Resistance To Corrosion (Metal Parts Only)	ASTM B117	Shall withstand 24 Hours in 1% Salt Spray (Fog) for outdoor with no major visual change or corrosion.	See annex I	Pass

To be continued…

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Test Item	Test Method	Test requirements	Test Result	Rating
Humidity Test	SGS In-house Method	Shall withstand 100^{0}F and 95% relative humidity for 24 hours with no major visual change or corrosion.	Details see Annex II	Pass
PHYSICAL CHARACTERISTICS - Upholstery (If Applicable)				
Fabric Weight (Oz. / Sq. Yd.)	ASTM D3776	As approved / as claimed / products specifications (+5% / -0%)	See annex III	---
Thread Count (Ends X Picks)	ASTM D3775	As approved / as claimed / products specifications (+5% / -0%)	NA	---
Defects	Visual Check	No major defects / two minor defects (max.)	See annex III	Pass
Evenness Of Color	Visual Check	Shall provide uniform color	See annex III	Pass
PERFORMANCE - Upholstery (If Applicable)				
Fabric Strength - Length	ASTM D5034	Min. 50 lbs. / In.	See annex III	Pass
Fabric Strength - Width	ASTM D5034	Min. 50 lbs. / In.	See annex III	Pass
Seam Strength	ASTM D1683	Min. 30 lbs. / In.	See annex III	Pass
Tearing Strength	ASTM D1424	Shall withstand not less than 2.0 lbs.	See annex III	Pass
Abrasion Resistance (For Fabric and Leather)	ASTM D4966	Shall withstand not less than 25,000 cycles.	See annex III	Pass
COLORFASTNESS - Upholstery (If Applicable)				
Light Fading	AATCC 16E	Class 3.0 @ 20 hrs.	See annex III	Pass
Dry Crocking	AATCC 8/116	Class 4.0 (Textile), Class 3.0 (Leather)	See annex III	Pass
Wet Crocking	AATCC 8/116	Class 3.0 (Textile), Class 2.0 (Leather)	See annex III	Pass
FLAMMABILITY				
UFAC		(See attached test results / requirements)	See annex IV	Pass

To be continued…

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Test Item	Test Method	Test requirements	Test Result	Rating
CALIFORNIA TECHNICAL BULLETIN 116		(See attached test results / requirements)	See annex V	Pass
Resilient Cellular Material:				
Section A, Part I	C.T.B. 117	(See attached test results / requirements)	See annex VI	Pass
Section D, Part II	C.T.B. 117	(See attached test results / requirements)	See annex VI	Pass
Man - Made Fiber Filling Material:				
Section C	C.T.B. 117	(See attached test results / requirements)	NA	---
Section D, Part I	C.T.B. 117	(See attached test results / requirements)	NA	---
Non - Man - Made Filling Material:				
Section B, Part I	C.T.B. 117	(See attached test results / requirements)	NA	---
Section D, Part I	C.T.B. 117	(See attached test results / requirements)	NA	---
Mixed Fiber Filling Material:				
Section C (If Man - Made Fiber Filling Material is 60% Or Greater)	C.T.B. 117	(See attached test results / requirements)	NA	---
Section B, Part I (If Non - Man - Made Fiber Filling Material Is 60% Or Greater)	C.T.B. 117	(See attached test results / requirements)	NA	---
Section C And Section B, Part I (If Filling Material Is Not Classified)	C.T.B. 117	(See attached test results / requirements)	NA	---
Section D, Part I	C.T.B. 117	(See attached test results / requirements)	NA	---
Shredded Resilient Cellular Material:				
Section A, Part II	C.T.B. 117	(See attached test results / requirements)	NA	---
Shredded And Loose Fill Material (Feathers And Downs):				
Section B, Part II	C.T.B. 117	(See attached test results / requirements)	NA	---
Expanded Polystyrene Beads:				
Section A, Part III	C.T.B. 117	(See attached test results / requirements)	NA	---
Upholstery Fabric				
Section E, Part I	C.T.B. 117	(See attached test results / requirements)	See annex VII	Pass
ANALYTICAL				
Lead In Scrapable Surface Coating	ASTM E1613/ E1645	Not in excess of 0.060% Pb by weight (CPSA - 16 CFR 1303)	See annex VIII	Pass

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Remark:

1. NA: Not applicable.
2. Resistance to Corrosion Test was only applied to the gas spring and the back steel plate in this report as per the client's requirements (See Annex 1).
3. Humidity Test was added and was only applied to the arm and the base components in this report as per the client's requirements (See Annex 2).

Product Photo:



II. ISTA 1A

1. Shipping marks

For further detail, please refer to the following photos;

2. Description of Package:

1) External Container Size (inch) : length 34-1/4 x width 19-5/8 x depth 26-3/4

2) Gross Weight of Packaged-Product Tested (lbs.) : 65.00

3) Shipping Carton

Forms	: Double Wall corrugates board
Box Makers Certificate	: Yes
Joint	: Glued
Closed With	: Pressure sensitive tape
Style	: Top opening

4) Internal Packing (Details please see photo)

- The hardware was packed into a blister case.
- The cylinder was packed into an inner corrugated box.
- The cushions and the wheels were packed into plastic bags.
- The other components were wrapped with PE-foam films.
- One set of chair was packed into a shipping carton under protection of polyfoam blocks and PE-foam films.

To be continued…

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3. Transportation Test (As Per ISTA Project 1A: 2001)

Sample Size One Master Carton

1) Vibration Test

Mode of Vibration	: Vertical motion
Vibration Frequency	: 215 cpm
Duration of the Test	: 67 minutes
Number of Impact	: 14200 times
Inspection before Vibration	: Yes
Inspection after Vibration	: Yes

2) Drop Test

Number of Drop	: 10
Height of Drop (inch)	: 12
Inspection before Drop	: Yes
Inspection after Drop	: Yes

Result:

Satisfactory: after performing the vibration and drop test, no visual damage was found on the product.

Photo Appendix:









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Annex I:

Salt Spray Test (refer to ASTM B117-03)

General Information:

No. of Tested Specimen	:	2 pcs
Concentration of Salt Solution	:	1% Sodium Chloride Dissolve in 99% Distill Water
Test Duration	:	24 hours
Test Temperature	:	35 ± 2 ℃
pH of Salt Solution	:	6.9
Test Equipment	:	Salt Spray Tester, Model: T-8052C, No.:TE020

Observation Rating (Evaluating based on ASTM D610-01)	
Rating	Surface Corrosion Percentage of Tested Sample
Grade 10	≤ 0.01%
Grade 9	0.01~ 0.03%
Grade 8	0.03 ~ 0.1%
Grade 7	0.1~ 0.3%
Grade 6	0.3 ~ 1.0%
Grade 5	1.0 ~ 3.0%
Grade 4	3.0 ~ 10.0%
Grade 3	10.0 ~ 16.0%
Grade 2	16.0 ~ 33.0%
Grade 1	33.0 ~ 50.0%
Grade 0	≥ 50%

Test Result: (The test data were provided to the client for their own analysis)

Specimen No.	Observation Rating	Specimen No.	Observation Rating
# 1	Grade 8	# 2	Grade 8

To be continued…

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Appendix information:

Test equipment:

Name	Brand	Model	No.
Salt Spray Tester	------	T-8052C	TE020

Lab Environmental Conditions:

Ambient temperature: 25±3℃

Relative humidity: 55±20%R.H.

Photo appendix:



1



2

Annex II:

Humidity test (as per client's requirement)

1.1 Test conditioning:

Test Temperature: 100 ^{0}F

Test Humidity: 95%R.H.

Duration: 24 hours

1.2 Test sample:

Sample condition: Unpacked

Style/Sample No.: # 1, #2

Quantity: Total 2 piece

To be continued…

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1.3 Requirement:

1.3.1 Take a visual checking before & after the test;

1.3.2 Record any defect before & after the test.

1.4 Test Result:

Specimen No.	Observation Result
# 1	No visual change after test
# 2	No visual change after test

Remark: For further details, please see the photos.

Appendix information:

Test equipment:

Name	Brand	Model	Serial No.
Humidity Chamber	--------	CH340	TE173

Lab Environmental Conditions:

Ambient temperature: 25±3℃

Relative humidity: 55±20%R.H.

Photo appendix:



After test # 1



After test # 2

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Annex III:

		Requirement
Fabric Weight Per Unit Area (ASTM D3776-1996(2002); Option C)		
(g/m^2)	710	/
(oz/yd^2)	21.0	/

Defects (Visual Check)

Test Result	Production Sample Against Original Sample	
Specimen	No major defects	Max. two minor defects

Color Difference (Visual Assessment)
Test method: Samples were compared against the standard colour and the colour difference was assessed against the Grey Scale for the change in colour under the illumination of artificial daylight D65.

Left, Middle, Right Colour Deviation:

Test Result	Left Against Right	Left Against Middle	Right Against Middle	
Specimen	4.5	4.5	4.5	Uniform color

Remark :
(1) Nomenclature for gradin
5 = Negligible or no changed
4 = Slight changed
3 = Noticeably changed
2 = Considerably changed
1 = Much changed
(2) The method used is in accordance with the procedure laid down in “Evaluation Procedure” published by the international organization of standardization.
(3) The test reported above are carried out to the best of our knowledge and attention should be drawn to the fact that the difference in surface treatments or finishing applied and the limited size of the colour standards could adversely influenced the ease and accuracy of the assessment.

Tensile Strength (ASTM D5034-1995 (2001) ; CRE-1” strip)

Warp (lb/in)	137.7	Min. 50lb lb/in
Weft (lb/in)	222.0	Min. 50lb lb/in

Seam Strength (ASTM D1683-2004)

Warp (lb)	181.5 (STB)	Min. 30lb/in
Weft (lb)	191.3 (STB)	Min. 30lb/in

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		Requirement

Tearing Strength (ASTM D1424-1996)

Warp yarns torn (lb)	12.0	Min. 2.0lb
Weft yarns torn (lb)	13.3	Min. 2.0lb

Remarks: Full scale range of pendulum for warp & weft testing is 14.4lb

Abrasion Resistance
(Ref. ASTM D4966-1998 (2004); Martindale Wear & Abrasion Tester; 12kPa Pressure)

Endpoints (Cycles)	Exceeds 25,000	25,000cycles

Color Fastness To Crocking (AATCC 116-2001)

Dry staining	4.5	Min. 3.0
Wet staining	4.5	Min. 2.0

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

Annex IV:

① Fabric Classification

specimen	Vertical Char Length	Comments and observations
1	7mm	Class I
2	8mm	Class I
3	8mm	Class I

Requirement and classification:

1. If a cigarette extinguishes before burning its entire length, a fresh cigarette shall be placed on a fresh area of the test assembly and covered with sheeting fabric until one of the following occurs.
   (1) Three cigarettes have burned their entire lengths or three individual test specimens
   (2) There cigarettes have self – extinguished on the sample
2. If an obvious ignition occurs on any of the three specimens, the smoldering materials shall be extinguished and the sample shall be recorded as a **class II** cover fabric based on the results of this test.
3. If no obvious ignition occurs, the char on the vertical panel measured from the original crevice position to the highest part of the destroyed or degraded cover fabric shall be recorded to the nearest 2.5mm.
4. **Class I** cover fabric shall show no evidence of ignition of any test assembly, the vertical char on any of the three specimens shall not exceed 45 mm.
5. **Class II** cover fabric that do not meet class I criteria shall be designated as **class II.**

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② Filling / Padding Component

specimen	Vertical Char Length	Comments and observations
1	27mm	Class I
2	26mm	Class I
3	26mm	Class I

Requirement and classification:

1. If a cigarette extinguishes before burning its entire length, a fresh cigarette shall be placed on a new test assembly and covered with sheeting fabric until one of the following occurs.
   (1) Three cigarettes have burned their entire lengths or three individual test specimens.
   (2) There cigarettes have self – extinguished on the sample.
2. If an obvious ignition occurs on any of the three specimen, the smouldering materials shall be extinguished and the sample shall be recorded as a **class II** filling / padding material based on the results of this test.
3. If no obvious ignition occurs, the char on the vertical panel measured from the original crevice position to the highest part of the destroyed or degraded fabric shall be recorded.
4. **Class I** filling/ padding shall show no evidence of ignition of any test assembly, the vertical char on any of the three specimen shall not exceed 38 mm.
5. **Class II** filling / padding that do not meet class I criteria shall be designated as **class II.**

③ Welt Cord

specimen	Vertical Char Length	Comments and observations
1	16mm	Class I
2	14mm	Class I
3	13mm	Class I

Requirement and classification:

1、 If a cigarette extinguishes before burning its entire length, a fresh cigarette shall be placed on a fresh area of the test assembly and covered with sheeting fabric until one of the following occurs.
   (1) Three cigarettes have burned their entire lengths or three individual test specimens.
   (2) There cigarettes have self – extinguished on the sample.
2、 If an obvious ignition occurs on any of the three specimens, the smouldering materials shall be extinguished and the sample shall be recorded as a **class II** welt cord based on the results of this test.
3、 If no obvious ignition occurs, the char on the vertical panel measured from the top of the original welt position to the highest part of the destroyed or degraded cover fabric shall be recorded.
4、 **Class I** the specimen shall show no evidence of ignition of any test assembly, the vertical char on the cover fabric shall not exceed 38 mm for any of three specimens.
5、 **Class II** welt cord that do not meet class I criteria shall be designated as class II

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④ Interior Fabrics

specimen	Vertical Char Length	Comments and observations
1	34mm	Class I
2	33mm	Class I
3	36mm	Class I

Requirement and classification:

1) If a cigarette extinguishes before burning its entire length, a fresh cigarette shall be placed on a new test assembly and covered with sheeting fabric until one of the following occurs.
   (1) Three cigarettes have burned their entire lengths or three individual test specimens.
   (2) There cigarettes have self – extinguished on the sample.

2) If an obvious ignition occurs on any of the three specimens, the smouldering materials shall be extinguished and the sample shall be recorded as a **class II** interior fabric based on the results of this test.
3) If no obvious ignition occurs, the char on the vertical panel measured from the original crevice position to the highest part of the destroyed or degraded cover fabric shall be recorded to the nearest 2.5mm.
4) **Class I** interior fabric shall show no evidence of ignition of any test assembly, the vertical char on the cover fabric of any of the three specimen shall not exceed 38 mm.
5) **Class II** interior fabric that do not meet class I criteria shall be designated as class II

Annex V:

Cigarette Position		Char Length (inches)		
		1	2	3
1.	Smooth Surface	0.20	0.20	0.10
2	Welted Edge	0.10	0.10	0.10
3	Crevices	0.10	0.15	0.15
4	Top of Arm	0.10	0.10	0.10
5	Top of Back	0.10	0.15	0.15

Requirements: All articles of upholstered furniture shall resist combustion from cigarettes. Maximum char length of any specimen shall not exceed 2 inches in any Direction from the cigarette.

Conclusion: The submitted sample was found to meet the requirements of the State of California Technical Bulletin 116.

To be continued…

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Annex VI:

(1) Foam with the density of 24kg/m^3

I. Section A - Part I

Specimen		Char length (inch)	After flame (Second)	After glow (Second)	Result
Before Aging	1	3.60	0.00	0.00	PASS
	2	3.90	0.00	0.00	
	3	3.70	0.00	0.00	
	4	3.60	0.00	0.00	
	5	3.50	0.00	0.00	
	AVE	3.66	0.00	0.00	
After Aging	1	3.80	0.00	0.00	PASS
	2	3.80	0.00	0.00	
	3	3.60	0.00	0.00	
	4	3.90	0.00	0.00	
	5	3.40	0.00	0.00	
	AVE	3.70	0.00	0.00	

Section D - Part II

Specimen	Non-Smoldered Residue (%)	Result
#1	84.3%	PASS
#2	84.0%	
#3	84.6%	

To be continued…

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(2) **Foam with the density of 28kg/m^3**

I. Section A - Part I

Specimen		Char length (inch)	After flame (Second)	After glow (Second)	Result
Before Aging	1	2. 60	0.00	0.00	PASS
	2	2.70	0.00	0.00	
	3	2.60	0.00	0.00	
	4	2.40	0.00	0.00	
	5	2.80	0.00	0.00	
	AVE	2.62	0.00	0.00	
After Aging	1	2.70	0.00	0.00	PASS
	2	2.40	0.00	0.00	
	3	2.40	0.00	0.00	
	4	2.90	0.00	0.00	
	5	2.50	0.00	0.00	
	AVE	2.58	0.00	0.00	

Specimen		Char length (inch)	After flame (Second)	After glow (Second)	Result
After Aging	1	2.70	0.00	0.00	PASS
	2	3.00	0.00	0.00	
	3	2.90	0.00	0.00	
	4	2.70	0.00	0.00	
	5	2.60	0.00	0.00	
	AVE	2.78	0.00	0.00	

Section D - Part II

Specimen	**Non-Smoldered Residue (%)**	Result
#1	98.3%	PASS
#2	98.1%	
#3	97.8%	

To be continued…

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Remark:

① Requirements according to section A I:

Average Char Length of all specimens	-	6 inches (max.)
Maximum Char Length of any individual specimen	-	8 inches (max.)
Average After Flame	-	5 seconds (max.)
Maximum after Flame of any individual specimen	-	10 seconds (max.)
Average After Glow	-	15 seconds (max.)

Resilient cellular materials shall meet the above requirements both before and after aging for 24 hours in a circulating air oven at 220°F.

② Requirements according to D II:

All test specimens greater than 80% non-smoldered residue - Foam passes.
Two or more test specimens with less than 80% non-smoldered residue - Foam fails.
One test specimen with less than 80% non-smoldered residue - Test 3 additional test specimens.

On Retest:
(a) One test specimen with less than 80% non-smoldered residue - Foam fails.
(b) All test specimens greater than 80% non-smoldered residue - Foam passes.

Photo Appendix:

	
Foam (density 24kg/ m^3)	Foam (density 28kg/ m^3)

To be continued…

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Annex VII:

Section E Part I– Dated 2000

Sample number	Rate of Burning (secs)			
	Length		Width	
	Face	Back	Face	Back
1	DNI	DNI	DNI	DNI
2	DNI	DNI	DNI	DNI
3	DNI	DNI	DNI	DNI
4	DNI	DNI	DNI	DNI
5	DNI	DNI	DNI	DNI

Remark: DIN –-- Do Not Ignition

Requirements: Fabrics shall meet the class 1 requirements of U.S department of commercial standard 191-53.
Test a minimum of 5 specimens with the warp yarns in the long direction of test and 5 specimens with the fill yarns in the long direction of tests.

Conclusion: The tested sample meets the requirement of California Technical Bulletin 117 Section E and is rated as Class _1_ Flammability.

Photo Appendix:



To be continued…

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Annex VIII:

Lead Content (With reference to ASTM E1645-2001 & ASTM E1613-1999, analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer ICP-AES)

	Black coating on metal	Requirement
Lead Content (Pb)	0.007%	< 0.060%

Remark: This is a combined report.

End of Report

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