




4700 Broadmoor SE, Suite 200  
Kentwood, MI 49512

Telephone: 616-656-7401  
Facsimile: 616-656-2022  
www.intertek-etlsemko.com

PETER PEPPER PRODUCTS  
Date: August 25, 2010  
P. O. No.:

Project No.: 3191628GRR-001C  
Reference No.: 09-0930-215059  
Page 1 of 16

**Test Report For:**  
**PETER PEPPER PRODUCTS**  
**ANSI/BIFMA X5.1-2002**  
**CHAIR TEST STANDARD**  
**Scoop Folding Chair**

  
**Bryan Stratton**  
**Reviewer**

  
**James Jantz**  
**Project Manager**

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Project No.: 3191628GRR-001C  
Reference No.: 09-0930-215059  
Page 2 of 16

Attn: Kip Pepper  
Peter Pepper Products  
17929 S. Susana Rd.  
Compton, CA. 90224  
Phone: (800) 496-0204  
Email: kpepper@peterpepper.com

**DATE RECEIVED:** 10/14/09  
**DATES TESTED:** 10/16/09-8/23/10

**DESCRIPTION OF SAMPLES:**

Part Description: Scoop Folding Chair  
Model Number: Scoop  
Condition of Test Sample: Production

**WORK REQUESTED/APPLICABLE DOCUMENTS:**

To test the submitted sample per ANSI/BIFMA X5.1-2002 Chair Test Standard for the following test program:

<u>Test No.</u>	<u>Test Description</u>
6	Back Rest Strength-Non-Tilt
8	Drop
11	Seating Durability
12	Stability
16	Backrest Durability-Non-Tilt
18	Leg Strength

**CONCLUSION:**

The submitted samples meet the acceptance criteria of the tests listed above.



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Project No.: 3191628GRR-001C  
Reference No.: 09-0930-215059  
Page 3 of 16

**TEST EQUIPMENT:**

138002	25 LB BAG WEIGHTS (96)	FAIRBANKS	413132	VBU
138012	SCALE / 0-1,000 #	FAIRBANKS	41-3132	12/04/2010
138042	SEATING IMPACT / 2 STATION	ENTE LA	none	VBU
138112	GRADUATED RULE 36"	STARRETT	2117A15	08/27/2013
138107	BACK DURABILITY MACHINE	ENTE LA	none	VBU
138169	REAR STABILITY WEIGHT	INTERTEK	none	VBU
138170	FRONT STABILITY WEIGHT	INTERTEK	none	VBU
138228	STOPWATCH	SPER SCIENTIFIC	810035C	12/08/2010
138914	FORCE GAUGE	CHATILLON/AMETEK	NC002768	03/30/2011
138022	DIGITAL/ 0-1,000 READOUT/ LOAD 1,000 LBS.	PENNSYLVANIA	3000 E	03/30/2011
138022.2	LOAD CELL / 0-1,000 # 1-3000 LBS.	PENNSYLVANIA	3000E	03/30/2011



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Project No.: 3191628GRR-001C  
Reference No.: 09-0930-215059  
Page 4 of 16

**6. BACK STRENGTH PROCEDURE - STATIC (Type II-III – Non-Tilt Seat):**

Date Tested: 10/21/09  
Condition of Test Sample: Production

Test Procedure:

Test Method: ANSI/BIFMA X5.1 2002; Test No. 6  
Functional Load: 150 lbf.  
Proof Load: 250 lbf.

Number of Samples Tested: One (1)

Acceptance Criteria:

Functional Load: There shall be no loss of serviceability to the chair.

Proof Load: There shall be no sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable.

Results:

Static Load	Description of Results
150	Pass
250	Pass

The sample meets the acceptance criteria of the test described above. Refer to the following page for photograph.

PETER PEPPER PRODUCTS  
Date: August 25, 2010  
P. O. No.:

Project No.: 3191628GRR-001C  
Reference No.: 09-0930-215059  
Page 5 of 16



**Back Strength Test**



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Project No.: 3191628GRR-001C  
Reference No.: 09-0930-215059  
Page 6 of 16

**DROP TEST:**

Date(s) Tested: 8/23/10  
Condition of Test Sample: Production

Test Procedure:

Test Method: ANSI/BIFMA X5.1-2002; Test No. 8

Functional Load: 225 lbf.  
Proof Load: 300 lbf.  
Drop Height: 6"  
Number of Samples Tested: One (1)

Acceptance Criteria:

Functional Load: A functional load shall be applied once to each seat in the unit with no structural breakage or loss of serviceability to the unit.

Proof Load: A proof load shall be applied once to each seat in the unit, with no failure to the unit that in any way would cause personal injury to the occupant.

Results:

Sample No.	Load (lbf)	Description of Results
1	225	Pass
	300	Pass

The sample meets the acceptance level criteria. Refer to the following page for photograph.



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P. O. No.:

Project No.: 3191628GRR-001C  
Reference No.: 09-0930-215059  
Page 7 of 16



**DROP TEST**



PETER PEPPER PRODUCTS  
Date: August 25, 2010  
P. O. No.:

Project No.: 3191628GRR-001C  
Reference No.: 09-0930-215059  
Page 8 of 16

**11. Seating Impact Test**

Dates Tested: 8/9-8/13/10  
Condition Of Test Sample: Production

Test Procedure:

Test Method: ANSI/BIFMA X5.1-2002; Test No. 11

Section 11.3 Seat Center Impact Test  
Bag Diameter: 16"  
Bag Weight: 125 Lbs.  
Number Cycles: 100,000  
Height Of Drop: 1"  
Cycles Per Minute: 10 To 30

Section 11.4 Load Ease Test  
Bag Diameter: 8"  
Bag Weight: 165 Lbs.  
Number Of Cycles Required: 20,000 To Each Front Corner  
Cycles Per Minute: 10 To 30

Number Of Samples Tested: One (1)

Acceptance Criteria:

There Shall Be No Loss Of Serviceability To The Chair After Completion Of Both The Impact And Load Ease Tests.

Results:

Section 11.3

Number Of Cycles	Description Of Results
100,000	Pass

Section 11.4

Location Of Force	Number Of Cycles	Description Of Results
Left Front Corner	20,000	Pass
Right Front Corner	20,000	Pass

The sample meets the acceptance criteria of the test described above. Refer to the following page for photographs.



PETER PEPPER PRODUCTS  
Date: August 25, 2010  
P. O. No.:

Project No.: 3191628GRR-001C  
Reference No.: 09-0930-215059  
Page 9 of 16



**Seating Impact Test**



**Load Ease Test**



PETER PEPPER PRODUCTS  
Date: August 25, 2010  
P. O. No.:

Project No.: 3191628GRR-001C  
Reference No.: 09-0930-215059  
Page 10 of 16

**12. STABILITY TEST -DYNAMIC (Front and Rear):**

Date Tested: 8/12/10  
Condition of Test Sample: Production

Test Procedure:

Test Method: ANSI/BIFMA X5.1-2002; Test No. 12  
All of the chair's adjustable features shall be set for the most unstable conditions.

Chair Type: III

Rear Stability:

Weight in Seat  
(Rear Stability Only): 173 lbs.

Front Stability:

Alternative: N/A  
Vertical Load: 134.8 lbs.  
Horizontal Force: 4.5 lbs.

Number of Samples Tested: One (1)

Acceptance Criteria:

Front Stability: The chair shall not tip over as the result of the force application.

Rear Stability: The force to tip shall not be less than:

- Type I: 20 lbf.
- Type II: 20 lbf.
- Type III: 35 lbf.

Results:

Sample No.	Front Stability	Rear Stability
1	8.9 lbf. to tip	60lbf. to tip

The sample meets the acceptance criteria of the test described above. Refer to the following pages for photographs.



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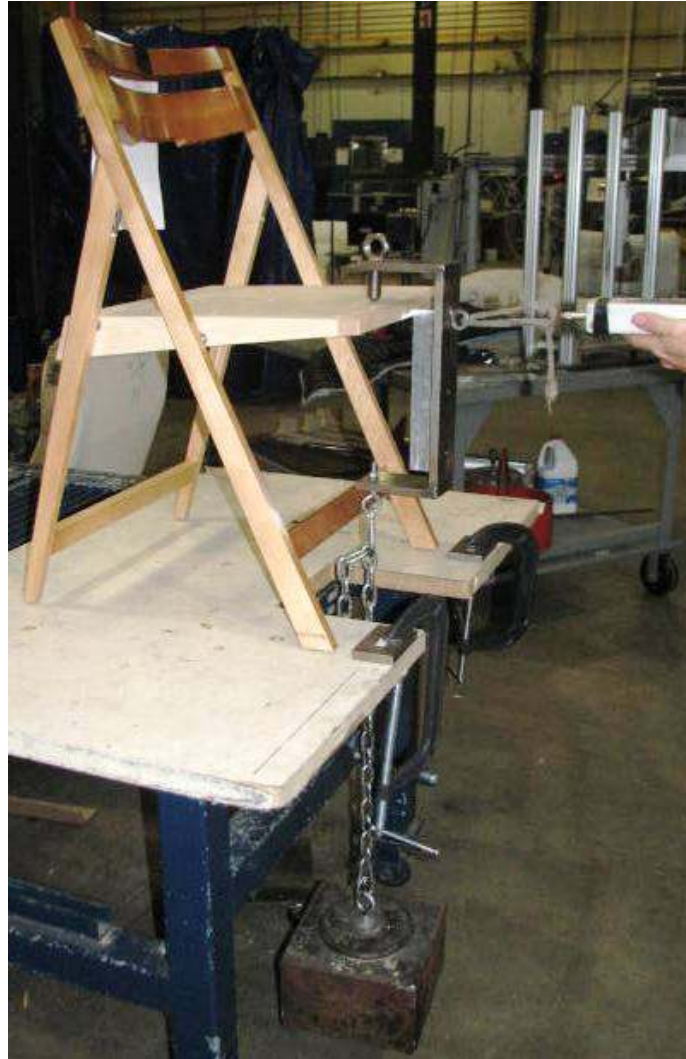
Project No.: 3191628GRR-001C  
Reference No.: 09-0930-215059  
Page 11 of 16



**Stability Test -Dynamic (Rear)**

PETER PEPPER PRODUCTS  
Date: August 25, 2010  
P. O. No.:

Project No.: 3191628GRR-001C  
Reference No.: 09-0930-215059  
Page 12 of 16



**Stability Test -Dynamic (Front)**



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PETER PEPPER PRODUCTS  
Date: August 25, 2010  
P. O. No.:

Project No.: 3191628GRR-001C  
Reference No.: 09-0930-215059  
Page 13 of 16

**16. BACK DURABILITY TEST-CYCLIC (Type III):**

Dates Tested: 10/16-10/21/09  
Condition of Test Sample: Production

Test Procedure:

Test Method: ANSI/BIFMA X5.1-2002; Test No. 16  
Backrest Width: 19"  
Number of Cycles Required: 120,000  
Center Pull Location: 80,000  
Off Center Pull Location: 40,000  
Force Applied to Chair Back: 75 lbf.  
Load in Seat: 225 lbs.  
Cycles per Minute: 10 to 30

Number of Samples Tested: One (1)

Acceptance Criteria:

No structural breakage or loss of serviceability.

Results:

Sample No.	Pull Location	Number of Cycles	Description of Results
1	Center Pull	80,000	Pass
	Off Center Pull	40,000	Pass

The sample meets the acceptance criteria of the test described above. Refer to the following page for photograph.

PETER PEPPER PRODUCTS  
Date: August 25, 2010  
P. O. No.:

Project No.: 3191628GRR-001C  
Reference No.: 09-0930-215059  
Page 14 of 16



**Back Durability Test-Cyclic**



PETER PEPPER PRODUCTS  
Date: August 25, 2010  
P. O. No.:

Project No.: 3191628GRR-001C  
Reference No.: 09-0930-215059  
Page 15 of 16

**18. LEG STRENGTH TEST - FRONT & SIDE APPLICATION:**

Date Tested: 10/21/09  
Condition of Test Sample: Production

Test Procedure:

Test Method: ANSI/BIFMA X5.1-2002; Test No. 18

Front to Rear Leg Application:

Functional Load: 75 lbf. (Load Each Leg)  
Proof Load: 125 lbf. (Load Each Leg)

Side Load Application:

Functional Load: 75 Lbs (Load Each Leg)  
Proof Load: 115 Lbs (Load Each Leg)

Number of Samples Tested: One (1)

Acceptance Criteria:

Functional Load: No structural breakage or loss of serviceability, including stacking if applicable.

Proof Load: No sudden and major change in the structural integrity of the product. Loss of serviceability is acceptable.

Results:

Sample No.	Load Application	Functional	Proof	Description of Results
1	Side to Side (Rear Side)	75 lbf.	115 lbf	Pass
	Side to Side (Front Side)	75 lbf.	115 lbf	Pass
	Front to Rear (Left Side)	75 lbf.	125 lbf.	n/a
	Front to Rear (Right Side)	75 lbf.	125 lbf.	n/a

The sample meets the acceptance criteria of the test described above. Refer to the following page for photograph.



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Project No.: 3191628GRR-001C  
Reference No.: 09-0930-215059  
Page 16 of 16



**Leg Strength Test – Side**