

# EMECO INDUSTRIES INC. TEST REPORT

**SCOPE OF WORK**

ANSI/BIFMA X5.4-2020 LOUNGE AND PUBLIC SEATING TEST STANDARD testing on the On & On Armless Chair

**REPORT NUMBER**

104574858GRR-001

**ISSUE DATE**

28-Jan-2021

**PAGES**

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**DOCUMENT CONTROL NUMBER**

Per RT-AMER-L-GRR-DUR-001

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## TEST REPORT FOR EMECO INDUSTRIES INC.

Report No.: 104574858GRR-001

Date: 28-Jan-2021

P.O.: N/A.

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### SECTION 1

#### CLIENT INFORMATION

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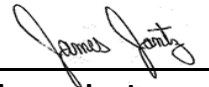
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**Lynwood Pearson**  
Test Engineer



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**James Jantz**  
Project Reviewer

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**SECTION 2**

**SUMMARY AND CONCLUSION**

Date Received: 18-Jan-2021  
 Dates Tested: 21-Jan-2021 to 28-Jan-2021

**DESCRIPTION OF SAMPLES**

Part Description: On & On Armless Chair  
 Chair Color: Black  
 Condition of Samples: New, Packaged  
 Number of Samples Received: Two (2)

**WORK REQUESTED/APPLICABLE DOCUMENTS**

ANSI/BIFMA X5.4-2020 LOUNGE AND PUBLIC SEATING TEST STANDARD  
 Intertek quote Qu-01139753

**CONCLUSION**

ID	TEST	RESULTS
1	16. Leg Strength Test – Front and Side Application Unit (MODIFIED)	CONFORMING
2	24. Structural Durability Test – Side to Side – Cyclic (MODIFIED)	CONFORMING

**SAMPLE DISPOSITION**

After testing samples were destroyed.

**TEST EQUIPMENT:**

ASSET #	EQUIPMENT	CALIBRATION DATE	CALIBRATION DUE
138012	Scale/0-1,000#	09/01/2020	09/01/2021
138148	Digital Protractor	12/21/2020	12/21/2021
138427	1000Lb. Load Cell	10/12/2020	10/12/2021
130900.24	Stopwatch	06/17/2020	06/17/2021
138394	Static load Station	08/26/2020	08/26/2021
138394.1	1,000lb Load Cell	08/26/2020	08/26/2021
138916.2	Timing Box	VBU	VBU

**SECTION 3**

**16. LEG STRENGTH TEST – FRONT AND SIDE APPLICATION: MODIFIED**

Date Received: 18-Jan-2021  
 Date Tested: 21-Jan-2021  
 Location Tested: Intertek Kentwood, MI

**DESCRIPTION OF SAMPLES:**

Part Description: On & On Armless Chair

**TEST PROCEDURE:**

Test Method: Per ANSI/BIFMA X5.4-2020 Test No. 16:

Unit Weight: 9 lbs.

Functional Load: 75 lbf. **Modified to 100 lbf.**

Proof Load: 113 lbf. **Modified to 150 lbf.**

Number of Samples Tested: One (1)

**ACCEPTANCE CRITERIA:**

Per ANSI/BIFMA X5.4-2020 Test No. 16:

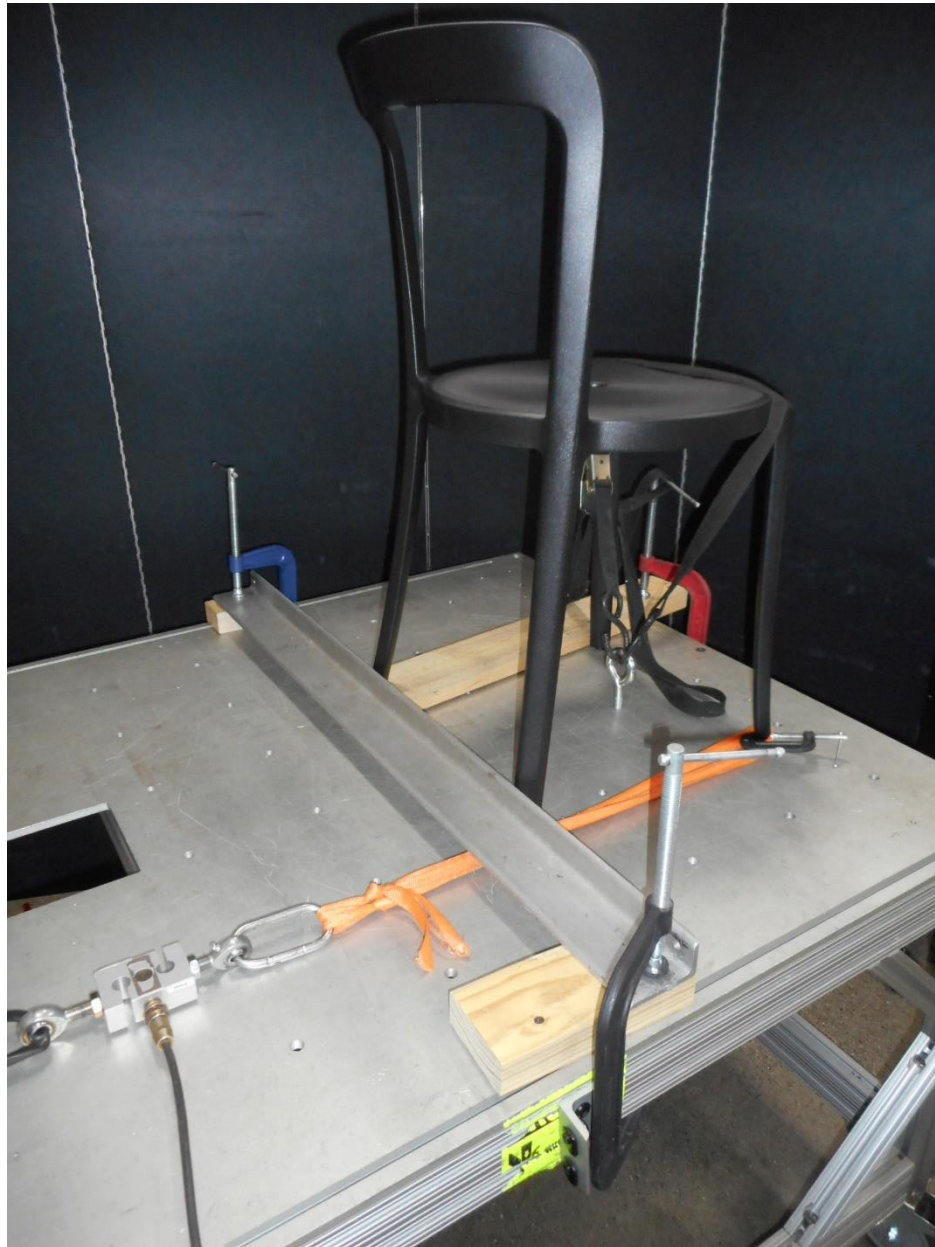
Functional Load: A functional load applied once in each direction shall cause no loss of serviceability.

Proof Load: A proof load applied once in each direction shall cause no sudden and major change in the structural integrity of the unit. Loss of serviceability is acceptable.

**RESULTS:**

SAMPLE ID	STATIC LOAD	RESULTS
1	100 lbf. (One minute)	Conforming
	150 lbf. (10 Seconds)	Conforming

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



**Leg Strength Test – Front Load**



**Leg Strength Test – Side Load**

**24. STRUCTURAL DURABILITY TEST – CYCLIC: MODIFIED**

Date Received: 18-Jan-2021  
 Date Tested: 21-Jan-2021 to 28-Jan-2021  
 Location Tested: Intertek Kentwood, MI

**DESCRIPTION OF SAMPLES:**

Part Description On & On Armless Chair

**TEST PROCEDURE:**

Test Method: Per ANSI/BIFMA X5.4-2020 Test No. 24:

Load in Seat: 240 lbs. **Modified to 265 lbs.**  
 Number of Cycles Required: 25,000 **Modified to 75,000 lbf., Side-to-Side 110 lbf.**  
 Number of Cycles Required: 25,000 **Modified to 75,000 lbf., Front-to-Back 55 lbf.**  
 Number of Samples Tested: One (1)

**ACCEPTANCE CRITERIA:**

Per ANSI/BIFMA X5.4-2020 Test No. 24:  
 There shall be no loss of serviceability.

**RESULTS:**

Sample ID	Cycles	RESULTS
2	75,000 Side to Side	Conforming
	75,000 Front to Back	Conforming

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



**Structural Durability Test – Cyclic - Side to Side**





**Structural Durability Test – Cyclic - Front to Back**

**SECTION 4**

**REVISIONS MADE TO TEST REPORT:**

DATE	REVISION DESCRIPTION	REVISED BY	REVISED BY
28-Jan-2021	Initial release.	Lynwood Pearson	