

### **TEST REPORT**

Mechanical & Hardgoods Laboratory

 Report No. :
 HL50164A/2019

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 Date
 :
 MAY 21, 2019

### YUN LIANG MACHINERY CO., LTD.

NO. 205, Jiazhan Rd., Ziguan Dist., Kaohsiung City 82647, Taiwan

The following merchandise was submitted and identified by the applicant as:					
Product Description:	PUBLIC STACKING CHAIR LTS-210ZR				
Style/Item No.:	Stacking Chair LTS-210ZR/Airy				
Manufacturer/Vendor:	YUN LIANG MACHINERY CO., LTD.				
Country of Origin:	TAIWAN				

We have tested the submitted sample(s) as requested and the following results were obtained:				
Type of chair:	TYPE III, fixed seat angle, fixed backrest			
Test Requested:	For compliance with ANSI/BIFMA X5.1-2017 General-Purpose Office Chairs-Tests Clause 6 Back Strength Test - Static - Type III			
	Clause 7 Drop Test – Dynamic Clause 11 Stability Test			
	Clause 17 Leg Strength Test			
Test Methods:	According to test procedures of ANSI/BIFMA X5.1-2017			
Test Results:	See following sheet(s)			
Conclusion:	The submitted sample(s) <u>comply with</u> clause 6, 7, 11 and 17 of ANSI/BIFMA X5.1-2017 General-Purpose Office Chairs-Tests.			
Date of Receipt :	May 08, 2019			
Testing Period :	May 08, 2019 ~ May 21, 2019			



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Evaluation	<b>Citation/Method</b>	Criteria	Results	Rating
PERFORMANCE				
Back Strength Test - Static - Type III - Functional Load	ANSI/BIFMA X5.1-2017 Clause 6.4.1	No loss of serviceability when 150 lb (667 N) is applied for 1 min. applied to 90° from back at 16 in above the seat. If the back is less than 17.8 in, the load is applied at the top of the back.	М	Pass
Back Strength Test - Static - Type III - Proof Load	ANSI/BIFMA X5.1-2017 Clause 6.4.2	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 225 lb (1001 N) is applied for 1 min. Applied 90° to the back at 16in. above the seat. If the back is less than 17.8 In, the load is applied at the top of the back.	М	Pass
Drop Test – Dynamic – Functional Load	ANSI/BIFMA X5.1-2017 Clause 7.4.1	No loss of serviceability when 102 kg (225 lbs.) weight free falls from 6 in. height to the center of the seat.	М	Pass
Drop Test Dynamic – Proof Load	ANSI/BIFMA X5.1-2017 Clause 7.4.2	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 136 kg (300 lbs.) weight free falls from 6 in. height to the center of the seat.	М	Pass
Stability Test – Rear Stability for type III	ANSI/BIFMA X5.1-2017 Clause 11.3.1	<ul> <li>Apply only to chairs with backrests greater than 200mm Type III:</li> <li>Load the chair with 6 disks, apply a horizontal force to the highest disk. The location of the force application is 6 mm (0.25 in.) from the top of the disk.</li> <li>The force shall be:</li> <li>F = 0.1964 (1195 – H) Newton. H is the seat height in mm.</li> <li>[F = 1.1 (47 – H) pounds force.]. H is the seat height in inches. For chairs with seat height equal to or greater than 710 mm (28.0 in.), a fixed force of 93 N (20.9 lbf.) shall be applied. The chair shall not tip over.</li> </ul>	M (Type III: F= 146.3 N)	Pass
Stability Test – Rear Stability for type I and II	ANSI/BIFMA X5.1-2017 Clause 11.3.2	Apply only to chairs with backrests greater than 200mm Load the chair with 13 disks, the chair shall not tip over.	N/A	/
Stability Test – Front Stability	ANSI/BIFMA X5.1-2017 Clause 11.4	The chair is obstructed with a 13mm (½ in.) obstruction to the chair casters/legs. A downward load of 61 kgs (135 lbs.) is centered 60 mm (2.4 in.) from the seat front center edge. The seat shall withstand a 20 N (4.5lbf.) horizontally from the front seat edge without tipping.	М	Pass
Leg Strength Test -Front Load - Functional Load	ANSI/BIFMA X5.1-2017 Clause 17.3	No loss of serviceability when a force of 334 N (75 lbf.) is applied to each front leg individually for 1 minute.	М	Pass
Leg Strength Test- Front Load - Proof Load	ANSI/BIFMA X5.1-2017 Clause 17.3	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when a force of 503 N (113 lbf.) is applied to each front leg individually for 1 minute.	М	Pass
Leg Strength Test -Side Load - Functional Load	ANSI/BIFMA X5.1-2017 Clause 17.4	No loss of serviceability when a force of 334 N (75 lbf.) is applied once to each front and rear leg individually for 1 minute.	М	Pass
Leg Strength Test -Side Load - Proof Load	ANSI/BIFMA X5.1-2017 Clause 17.4	No sudden and major change in the structural integrity (loss of serviceability is acceptable) when a force of 503 N (113 lbf.) is applied once to the front and rear leg individually for 1 minute.	М	Pass

#### Results Key:

Kesuits Key.					
М	Meets	N/M	Does Not Meet		
N/A	Not Applicable	N/T	Not Tested		
С	Claimed	R	Recorded		

Rating Key: Pass Fail

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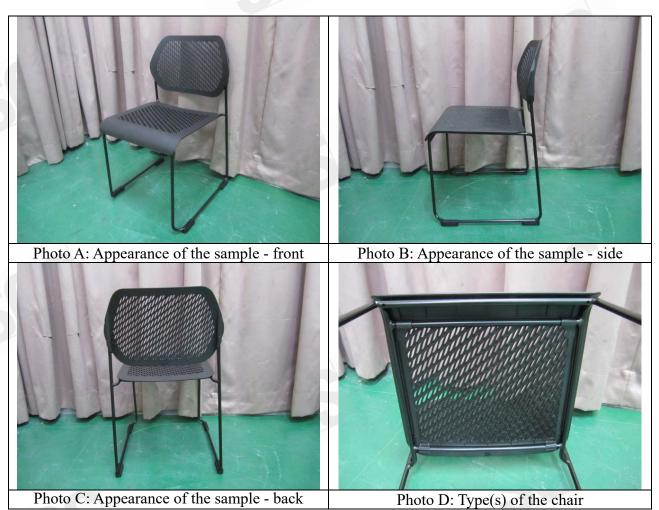
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