

Report NO. SA202411007


TEST REPORT

(1) Sample information

Sample Description	H5 Chair	Model:	/
Size	/	Quantity	3
Manufacturer Name	/	Sample Category	Chair
Material No.	/	Batch No	/
Entrusting Dep.	R&D Department 4	Entrusting Date	2024/11/4
Sample(s) condition	FINISHED	Client telephone	13588410747

(2) Testing information

Test Category: Internal Test      Test time: 2024-11-04

No.	Test Item	Test Basis	Specification	Test Result	Conclusion
1	Backrest Strength Test-Static -Type I & II (Clause5)	 ANSI/BIFMA X5.1-2017 (R2022)	Functional Load:There shall be no loss of serviceability when a force of 667N(150lbf.) is applied 70 ° ±10° to the back at 406mm(16in.) above the seat for 1 minute.	Meet the requirements	PASS
			Proof Load:There shall be no sudden and major change in the structural integrity (loss of serviceability is acceptable) when a force of 1001N(225lbf.) is applied 70 ° ±10° to the back at 406mm (16in.) above the seat for 1 minute.	Meet the requirements	PASS
2	Drop Test Dynamic (Clause7)	ANSI/BIFMA X5.1-2017 (R2022)	Functional Load:There shall be no loss of serviceability when a 102kg(225lb.) weight free falls from 152mm (6in.) height to the center of the seat one time (for the seat height is adjustable, test one time in its highest position then one time in its lowest position).	Meet the requirements	PASS
			Proof Load:There shall be no sudden and major change in the structural integrity (loss of serviceability is acceptable) when a 136kg (300lb.) weight free falls from 152mm (6in.) height to the center of the seat one time (for the seat height is adjustable, test one time in its highest position then one time in its lowest position).	Meet the requirements	PASS

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No.	Test Item	Test Basis	Specification	Test Result	Conclusion
3	Tilt Mechanism Test-cyclic-Type I & II (Clause9)	ANSI/BIFMA X5.1-2017 (R2022)	There shall be no loss of serviceability after moving the mechanism between the front and back stops for 300000 cycles with a 109kg (240lbs.) load on the seat.	Meet the requirements	PASS
4	Seating Durability Tests- Cyclic (Impact Test) (Clause10.3)		There shall be no loss of serviceability after a 57kg (125lbs.) weight free falls onto the seat from 36mm (1.4in.) height for 100000 cycles.	Meet the requirements	PASS
5	Seating Durability Tests- Cyclic (Front Corner Load-Ease Test -Cyclic - Off-center) (Clause10.4)		There shall be no loss of serviceability after loading two seat front corner with 890N (200LBF.) for 20000 cycles respectively.	Meet the requirements	PASS
6	Rear Stability Test for Type III Chairs (Clause11.3.1)		The chair shall not tip over when applying a horizontal force to 6mm (0.25in.) from the top of disk with 6 disks on the chair against backrest support fixture. Determine the horizontal force: $H \geq 710\text{mm}$ , $F=93\text{N}$ ; $H < 710\text{mm}$ , $F=0.1964(1195-H)$ . where: H is the seat height measured at the front of the bottom of the lowest disk when all disks are in the chair, in mm.	Not tipped	PASS
7	Front Stability Test (Clause11.4)		The chair shall not tip over when applying a horizontal outward force of 20N (4.5lbf.) from the seat with a vertical load of 61kg (135lb.) at a point 60mm (2.4in.) from the front center edge of the load-bearing surface of the seat.	Not tipped	PASS

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No.	Test Item	Test Basis	Specification	Test Result	Conclusion
8	Arm Strength Test-Vertical – Static (Clause12)	ANSI/BIFMA X5.1-2017 (R2022)	Functional load:There shall be no loss of serviceablity when a force of 750N (169lbf.) is applied vertically to the armrest for 1 minute.	Meet the requirements	PASS
			Proof load:There shall be no loss of serviceablity when a force of 1125N (253lbf.) is applied vertically to the armrest for 15s.	Meet the requirements	PASS
9	Arm Strength Test-Horizontal –Static (Clause13)		Functional load:There shall be no loss of seviceability when a force of 445N (100lbf.) is applied horizontally outward to the armrest for 1 minute.	Meet the requirements	PASS
			Proof load:There shall be no sudden and major change in the structural integrity (loss of serviceablity is acceptable) when a force of 667N (150lbf.) is applied horizontally to the armrest for 15s.	Meet the requirements	PASS
10	Back Durability Test-Cyclic –Type I (Clause14)		There shall be no loss of seviceability when a force of 445N (100lbf.) is appiled 90° ±10° to the seat for 120000 cyles with 109kg (240lbs.) weight on the seat.	Meet the requirements	PASS
11	Caster/Chair Base Durability Test for Pedestal Base Chairs (Clause16.1)		There shall be no loss of serviceability after cycling a travel of (762±50)mm ((30 ±2)in.) for 2000 cycles over a surface with obstacles and then 98000 cycles on a smooth,hard surface without obstacles with a 122kg (270lb.) load on seat. The caster should not separate under 22N (5lbf.) pulling force.	Meet the requirements	PASS

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No.	Test Item	Test Basis	Specification	Test Result	Conclusion
12	Arm Durability Test- Cyclic (Clause20)	ANSI/BIFMA X5.1-2017 (R2022)	There shall be no loss of serviceablity when a force of 400N (90lbf.) is applied simultaneously to each arm at a 10° ±1° angle for 60000 cycles at a rate between 10 and 30 cycles per minute.	Meet the requirements	PASS
13	Base test- Informative (Appendix C)		There shall be no sudden and major change in the structual integrity when a compression force of 11120N (2500lbf.) load is applied for 1 minute. The force is then removed and reapplied for 1 minute. The center column may not touch test paltform during load applications.	Meet the requirements	PASS

(3) Test Result

☒ PASS ☐ FAILED ☐ faithful representation

(4) Remarks

This report is consolidated by the eligible projects in SA202409203, SA202407060, SA202407148, SA202410175, SA202407005.

Prepare:

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Audit:

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Approve:

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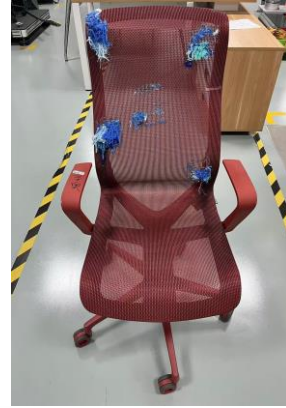
## Attached page



1#sample



2#sample



3#sample

----- End of report -----

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- Furniture and Material Testing Center of SUNON Technology Co., Ltd  
Building 6, No. 1666, Zhixing Road, Qiaonan Block, Xiaoshan Economic and Technological Development Zone,  
Xiaoshan District, Hangzhou City, Zhejiang Province