

## Test Report

No.: AJHL2405001978FT

Date: JUN 28, 2024

Page 1 of 5

### SUNON TECHNOLOGY CO., LTD

BUILDING 6, NO.1666, ZHIXING ROAD, QIAONAN BLOCK, XIAOSHAN ECONOMIC & TECHNOLOGICAL DEVELOPMENT ZONE, XIAOSHAN ZONE HANGZHOU, ZHEJIANG, CHINA

Sample Description : UX SOFA  
 Client Reference Information : P22-SA004 MODERN SOFA  
 P.O. / Ref. No. : SQ202404286  
 Manufacturer : SUNON TECHNOLOGY CO., LTD  
 Supplier : SUNON TECHNOLOGY CO., LTD

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

\*\*\*\*\*

Sample Receiving Date : MAY 10, 2024  
 Sample 1<sup>st</sup> Resubmission Date : MAY 20, 2024  
 Sample 2<sup>nd</sup> Resubmission Date : MAY 31, 2024  
 Test Performing Date : MAY 10, 2024 to JUN 27, 2024  
 Test Performed : Selected test(s) as requested by applicant

### Test Result Summary

No.	Test(s) Requested	Result(s)
1	ANSI/BIFMA X5.4-2020, Clause 5, 6, 7, 8, 10, 13, 14, 17, 19, 21, 24	PASS
2	QB/T 2280-2016, Base test – static	PASS

For further details, please refer to the following page(s)

Signed for and on behalf of  
 SGS-CSTC Standards Technical Services Co., Ltd. Anji Branch



David Fan  
 Authorized Signatory

Scan to see the report



AJHL2405001978FT

Verification:  
 check.sgsonline.com.cn



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

No. 301, Sunlight Road, 2 Block, Sunlight Industry Zone, Anji County, Zhejiang Province, China 313300 t (86-572) 5018825 f (86-572) 5018829 www.sgsgroup.com.cn  
 中国·浙江·安吉县阳光工业园二区阳光大道301号 邮编: 313300 t (86-572) 5018825 f (86-572) 5018829 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Test Report

No.: AJHL2405001978FT

Date: JUN 28, 2024

Page 2 of 5

Test Conducted: ANSI/BIFMA X5.4 -2020 Public and Lounge Seating - Tests

### Test Result:

Test Item	Test Requirement	Test Result
Backrest Strength Test - Horizontal -Static (Functional Load) (Clause 5)	Shall cause no loss of serviceability when a force of 667N (150lbf.) is applied to each backrest simultaneously for 1 minute. Apply the force $90^{\circ} \pm 10^{\circ}$ to the backrest at 406 mm (16in.) above the seat.	PASS
Backrest Strength Test - Horizontal -Static (Proof Load) (Clause 5)	Shall cause no sudden and major change in the structural integrity (loss of serviceability is acceptable) when a force of 1112N (250lbf.) is applied to each backrest simultaneously for 10 seconds. Apply the force $90^{\circ} \pm 10^{\circ}$ to the backrest at 406 mm (16in.) above the seat.	PASS
Backrest Strength Test - Vertical -Static (Functional Load) (Clause 6)	Shall cause no loss of serviceability when a force of 890N (200lbf.) is applied vertically at the top of each backrest simultaneously for 1 minute.	NA
Backrest Strength Test - Vertical -Static (Proof Load) (Clause 6)	Shall cause no sudden and major change in the structural integrity (loss of serviceability is acceptable) when a force of 1334N (300lbf.) is applied vertically at the top of each backrest simultaneously for 10 seconds.	NA
Backrest Durability Test - Horizontal – Cyclic (Clause 7)	Shall cause no loss of serviceability after a force of 334N (75lbf.) is applied to each backrest simultaneously for 120,000 cycles at a rate between 10 and 30 cycles per minute. Apply the force $90^{\circ} \pm 10^{\circ}$ to the backrest at 406 mm (16in.) above the seat or on the top of backrest with a 109 kg (240 lb.) weight in the center of each seat.	PASS
Backrest Durability Test - Vertical – Cyclic (Clause 8)	Shall cause no loss of serviceability after a vertical downward force of 890N (200lbf.) is applied at the top of the each backrest individually for 10,000 cycles at a rate between 10 and 30 cycles per minute.	NA
Arm Strength Test Vertical - Static (Functional Load) (Clause 10)	Shall cause no loss of serviceability (for a height adjustable arm, failure to hold its height position to within 6 mm (0.25 in.) from its original position is considered a loss of serviceability) when a force is applied vertically to the armrest for 1 minute. Armrest width > 75 mm (3 in.), force: 890 N (200 lbf.) Armrest width ≤ 75 mm (3 in.), force: 750 N (169 lbf.)	PASS
Arm Strength Test Vertical-Static (Proof Load) (Clause 10)	Shall cause no sudden and major change in the structural integrity (for a height adjustable arm, a sudden drop in height of greater than 25 mm (1 in.) does not meet this requirement. Loss of serviceability is acceptable.) when a force is applied vertically to the armrest for 10 seconds. Armrest width > 75 mm (3 in.), force: 1335 N (300 lbf.) Armrest width ≤ 75 mm (3 in.), force: 1125 N (253 lbf.)	PASS
Arm Durability Test for Single Seat Units – Angular – Cyclic (Clause 13)	Shall cause no loss of serviceability after simultaneously applying a force of 400 N (90 lbf.) to each arm initially at a $10^{\circ} \pm 1^{\circ}$ angle for 60,000 cycles with a rate between 10 and 30 cycles per minute.	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)  
No. 301, Sunlight Road, 2 Block, Sunlight Industry Zone, Anji County, Zhejiang Province, China 313300 t (86-572) 5018825 f (86-572) 5018829 www.sgs.com.cn  
中国·浙江·安吉县阳光工业园二区阳光大道301号 邮编: 313300 t (86-572) 5018825 f (86-572) 5018829 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)

## Test Report

No.: AJHL2405001978FT

Date: JUN 28, 2024

Page 3 of 5

Test Item	Test Requirement	Test Result
Seating Durability Tests – Cyclic (Clause 14)	Shall cause no loss of serviceability after a test bag weighing 57 kg (125 lb.) falls to each seat position individually for 100,000 cycles at a rate between 10 and 30 cycles per minute. The fall height shall not exceed 36 mm (1.4 in.) above the uncompressed surface on the seat. All seats not impacted shall be loaded with 109 kg (240 lb.) of weight per seat.	PASS
Unit Drop Test – Dynamic (Clause 17)	Shall cause no loss of serviceability after lifting one end of the unit to a specified height per Table 2 or to the balance point whichever comes first and allow it to drop freely. Repeat the test on the opposite end of the unit.	NA
Swivel Test – Cyclic (Clause 19)	Shall cause no loss of serviceability after rotating the unit for 120,000 cycles at a rate between 5 and 15 rotations per minute with a 122kg (270lb.) load on the seat.	PASS
Rear Stability for Non-tilting Units (Clause 21.3)	Load the seat with 6 disks against the support fixture. Apply a horizontal force to the highest disk at 6 mm (0.25 in.) from the top of the disk. The application of the force shall not cause the unit to tip over. 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	PASS
Rear Stability Test for Tilting Units (Clause 21.4)	Load one seat position with 13 disks against the support fixture. The unit shall not tip over.	NA
Front Stability for Units Less than 36.3 kg (80 lbs.) (Clause 21.5)	Apply a vertical load of 600 N (135 lbf.) at a point 60 mm (2.4 in.) from the front center edge of the load-bearing surface of the seat. Apply a horizontal force of 20 N (4.5 lbf.) at the same height. The force shall be coincident (in-line) with the side-to-side centerline of the seat. The chair shall not tip over as the result of the force application(s).	PASS
Front Stability for Units Greater Than or Equal to 36.3 kg (80 lbs.) (Clause 21.6)	Apply a 142 N (32 lbf.) downward force initially at $45^\circ \pm 5^\circ$ to the test platform by a strap centered over the front portion of the seat. The chair shall not tip over as the result of the force application.	NA
Structural Durability Test – Side-to-Side - Cyclic (Clause 24)	There shall be no loss of serviceability after applying a force of 334 N (75 lbf.) to the unit frame midway between front and rear of the seat at the height of the seat for 25000 cycles with a 109 kg (240 lb.) on the center of the seat. One cycle shall consist of one outward and one inward force application.	NA

### Remark:

1. NA = Not applicable



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

SGS-CSTC (Shanghai) Technical Services Co., Ltd.  
Anji Branch Hardlines

No. 301, Sunlight Road, 2 Block, Sunlight Industry Zone, Anji County, Zhejiang Province, China 313300 t (86-572) 5018825 f (86-572) 5018829 www.sgs.com  
中国·浙江·安吉县阳光工业园二区阳光大道301号 邮编: 313300 t (86-572) 5018825 f (86-572) 5018829 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Test Conducted: QB/T 2280-2016 Office furniture – Office chair

### Test Result:

Clause & Test Item	Test Requirements	Test Result
<b>5.5 Mechanical property</b>		
Base test – static	A compression force of 7560N load is applied on the base for 1 minute. The force is then removed and reapplied for 1 minute. Requirement: There shall be no sudden and major change in the structural integrity.	PASS

### Remark:

1. Type of chair:

Type III: A chair that provides a fixed seat angle with a fixed backrest.

Note: This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

No. 301, Sunlight Road, 2 Block, Sunlight Industry Zone, Anji County, Zhejiang Province, China 313300 t (86-572) 5018825 f (86-572) 5018829 www.sgsgroup.com.cn  
 中国·浙江·安吉县阳光工业园二区阳光大道301号 邮编: 313300 t (86-572) 5018825 f (86-572) 5018829 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



### Sample Information

Overall dimension: 1010 mm (L)×960 mm (W)×1040 mm (H)

Radius of base: 420 mm

Weight: 30.70 kg

### Photo Appendix



Sample as received - View 1



Sample as received - View 2



Sample as received - View 3



Sample as received - View 4

SGS authenticate the photo on original report only

\*\*\*End of Report\*\*\*



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)  
 No. 301, Sunlight Road, 2 Block, Sunlight Industry Zone, Anji County, Zhejiang Province, China 313300 t (86-572) 5018825 f (86-572) 5018829 www.sgs.com.cn  
 中国·浙江·安吉县阳光工业园二区阳光大道301号 邮编: 313300 t (86-572) 5018825 f (86-572) 5018829 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)