

Test Report

No.: AJHL250400164901FT

Date: JUN 18, 2025

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NOTIO LIVING A/S
 NYGADE 12, HOLSTEBRO 7500, DENMARK

Sample Description : SKAANE SOFA 3PL 1REC L EL
 Buyer : NOTIO LIVING A/S
 Manufacturer : ANJI SHENGXING OFFICE FURNITURE CO., LTD
 Supplier : NOTIO LIVING A/S
 Country of Origin : CHINA
 Country of Destination : DENMARK

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 : APR 07, 2025
 Test Performing Date : APR 07, 2025 to APR 28, 2025
 Test Performed : Selected test(s) as requested by applicant

Test Result Summary

No.	Test(s) Requested	Result(s)
1	EN 12520:2024 Excluding Clause 6 information for use	PASS
2	Selected Items in EK5/AK3 13-06.1:2023	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

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Test Conducted: EN 12520:2024 Furniture - Safety, strength and durability – Requirements for domestic seating

Test Result:

Test Item	Test Method & Test Requirement	Test Result
General safety requirements (EN 12520:2024, 5.1)		
<p>General (EN 12520:2024, 5.1.1)</p>	<p>The seating shall be designed so as to minimize the risk of injury to the user. All parts of the seating with which the user comes into contact during intended use when the seating is positioned in its intended configuration of use shall be designed so that physical injury and damage are avoided. This requirement is met when: a) the edges and corners of the seating which are directly in contact with the user are rounded or chamfered; b) all other edges and corners accessible during intended use are free from burrs and/or sharp edges. Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided. Load bearing parts of the seating shall not become loose unintentionally. All parts that are lubricated to assist sliding shall be designed to protect users from lubricant stains when in normal use.</p>	<p>PASS</p>
<p>Holes in tubular or rigid components (EN 12520:2024, 5.1.2)</p>	<p>There shall be no holes in the ends of tubular components or holes in rigid components in accessible parts between 7 mm and 12 mm, unless the depth of penetration is less than 10 mm. This requirement is fulfilled if there is no hazard present when tested in accordance with C.1.</p>	<p>PASS</p>
Shear and compression points (EN 12520:2024, 5.1.3)		
<p>Shear and compression points when setting up and folding (EN 12520:2024, 5.1.3.2)</p>	<p>Unless 5.1.3.3 or 5.1.3.4 are applicable, shear and compression points that are created only during setting up and folding are acceptable, because the user can be assumed to be in control of their movements and to be able to cease applying the force immediately upon experiencing pain. The edges of parts moving relative to each other and creating shear and compression points shall be as specified in 5.1.1.</p>	<p>PASS</p>
<p>Shear and compression points under influence of non-electrically powered mechanisms (EN 12520:2024, 5.1.3.3)</p>	<p>With the exception of operation of doors, flaps and extension elements, there shall be no areas where the distance between two accessible parts moving relative to each other can be less than 25 mm, and more than 8 mm in any position during movement that could present a risk of injury to the user, created by parts of the furniture operated by non-electrically powered mechanisms, e.g. mechanical springs and gas lifts. This requirement is fulfilled if there is no hazard present when tested in accordance with C.2.3.</p>	<p>NA</p>



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Test Item	Test Method & Test Requirement	Test Result
<p>Shear and compression points during use (EN 12520:2024, 5.1.3.4)</p>	<p>With the exception of operation of doors, flaps and extension elements, there shall be no areas where the distance between two accessible parts moving relative to each other can be less than 18 mm, and more than 8 mm in any position that could present a risk of injury to the user, created by loads applied during normal use, e.g. attempting to move the seating by lifting the seat or by adjusting the back rest when a person is sitting in the product. The loads used for durability tests within Table 1 are considered representative of normal use. This requirement is fulfilled if there is no hazard present when tested in accordance with C.2.3.</p>	<p>PASS</p>
<p>Stability (EN 12520:2024, 5.2) The seating shall fulfil the relevant requirements of EN 1022:2023 after having completed the relevant tests listed in Table 1. In the case of seating, which might not fulfil the stability requirements before carrying out any tests, the applicable stability tests may be carried out before starting the sequence of tests specified in Table 1.</p>		
<p>Test methods for assessing stability of all seating except loungers (EN 1022:2023, 7)</p>		
<p>General (EN 1022:2023, 7.1)</p>	<p>The stability tests are not applicable to seating which has both the height of the seat loading point < 200 mm and a mass < 5 kg.</p>	<p>/</p>
<p>Test procedures, all seating (EN 1022:2023, 7.3)</p>		
<p>Forwards overturning (EN 1022:2023, 7.3.1)</p>	<p>Apply a force F_1 of 600 N vertically at the point on the centre line of the seat 60 mm behind the front edge of the load bearing structure. Apply a force F_2 of 20 N horizontally outwards along a horizontal line extended forward from the point where the base of the loading pad meets the upper surface of the seat. For seating with a leg rest attached to support the weight of the user, repeat the test procedure on the leg rest with the leg rest fully extended.</p>	<p>PASS</p>
<p>Forwards overturning for seating with foot rest (EN 1022:2023, 7.3.2)</p>	<p>For seating with tubular foot rests or the foot rest depth is less than 120 mm, apply the vertical force F_1 (single column seats: 1100 N; other seating: 600 N) at the most onerous point along the centre line of the tube or the middle of the foot rest surface. For all other seating with foot rests apply the vertical force F_1 at the most onerous point 60 mm from the edge of the foot rest. Apply a force F_2 of 20 N horizontally outwards along a horizontal line extended forward from the point where the base of the loading pad meets the upper surface of the foot rest.</p>	<p>NA</p>
<p>Corner stability test (EN 1022:2023, 7.3.3)</p>	<p>This test is only applicable on seating possible to apply the loading pad at the specified position. Define the loading point 60 mm from the edge of the load bearing structure on a line as specified at the corner. Apply a force F_1 of 300 N vertically at the loading point. For seating with multiple seats apply the force F_1 at the loading point on one outside seating position.</p>	<p>PASS</p>



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Test Item	Test Method & Test Requirement	Test Result
Sideways overturning, all seating without arm rests (EN 1022:2023, 7.3.4)	This test is applicable to all seating where the top edge of the seat on the transverse plane is 50 mm or less above the height of the loaded seat loading point. Apply a force F_1 of 600 N vertically at a point 60 mm behind the edge of the load bearing structure on the side nearest the stopped feet and on the seat transverse plane. Apply a sideways force F_2 of 20 N horizontally outwards, perpendicular to the median plane, along a line from the point where the base of the loading pad meets the upper surface of the seat.	PASS
Sideways overturning, all other seating with arm rests (EN 1022:2023, 7.3.5.2)	Apply a force F_1 of 250 N vertically at a point 100 mm to the seat median plane nearest the stopped feet and on the transverse plane. Apply a force F_2 of 350 N vertically at a position on the centre line of the arm up to a maximum 40 mm inwards from the outside edge of arm structure on the transverse plane, but not less than 40 mm from the front or rear edge of the arm structure. If the transverse plane does not intersect with arm rest, apply force F_2 at 40 mm from the front or rear of the arm structure nearest the transverse plane. Apply a horizontal force F_3 of 20 N outwards and perpendicular to the line joining the stopped feet, for at least 5s, at the upper surface of the seat or arm rest in line with the vertical force F_2 .	PASS
Sideways overturning, all other seating with raised side edges (EN 1022:2023, 7.3.5.3)	This test is applicable to all seating where the top edge of the seat on the transverse plane is more than 50 mm above the height of the seat loading point. A resultant force F_R ($F_R * d_R = (F_1 * d_1) - (F_2 * d_2)$, d_1 = distance from line joining stopped feet to F_1 ; d_2 = distance from line joining stopped feet to F_2 ; d_R = distance from line joining stopped feet to F_R) is applied at the most suitable point on the transverse plane, that provides the same overturning moment of the combined forces F_1 of 250 N and F_2 of 350 N, when measured from the intersection of the transverse plane and a line joining the stopped feet. Apply a horizontal force F_3 of 20 N outwards and perpendicular to the line joining the stopped feet, for (5 ± 2) s, at the upper surface of the raised edge in line with vertical force F_2 .	NA
Rearwards overturning all seating with back rests (EN 1022:2023, 7.3.6)	The test is not applicable to seating that has adjustable back rest inclination that cannot be locked in position. For seating that has an adjustable back rest inclination that can be locked in position, it shall be locked in the most upright position. Apply a vertical force F_1 of 600 N to the seat at seat loading point. Apply the force F_2 ($F_2 = 80$ N if $H \geq 720$ mm; $F_2 = 0.2857(1000-H)$ N if 300 mm $\leq H < 720$ mm; $F_2 = 200$ N if $H < 300$ mm. H = Height of loaded seat above the floor, in mm) horizontally rearwards to the seating back at back loading point B, or at the top edge of back rest, whichever is the lower.	PASS
Additional test procedures for seating with reclining back rests (EN 1022:2023, 7.4)		



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Test Item	Test Method & Test Requirement	Test Result
Tilt chairs (EN 1022:2023, 7.4.2)	The test method applies to all values of $\theta \geq 10^\circ$ and values of γ between 90° and 170° . If the seating has a locking system, it shall be disabled. Load the seat with the loading discs (single column seats: 13 discs; other seating: 11 discs) so that the discs are firmly settled against the back rest. Apply the loads for (60 ± 5) s.	NA
Reclining seating with leg rest (EN 1022:2023, 7.4.3)	The test method applies to all values of $\theta \geq 10^\circ$ and less than 55° and values of γ between 90° and 170° . All other reclining seating with leg rests shall be tested as tilting seating. With the seating in the fully reclined configuration, load the back of the seat with 8 loading discs and place 3 loading discs onto the leg rest at a distance Z from the intersection of the seat and back. Apply the loads for (60 ± 5) s.	PASS
Reclining seating without leg rest (EN 1022:2023, 7.4.4)	The test method applies to all values of $\theta \geq 10^\circ$ and less than 45° and values of γ between 90° and 170° . All other reclining seating without foot rests shall be tested as tilting seating. Load the back of the seating with 8 loading discs and place 3 loading discs onto the front of the seat of the chair at a distance X from the intersection of the seat and back. Apply the loads for (60 ± 5) s.	NA
Rearwards stability test for rocking chairs (EN 1022:2023, 7.4.5)	This test replaces the rearwards overturning test from 7.3.6. Load the chair with the loading discs (single column seats: No required; other seating: 8 discs) so that the discs rest against the chair back. Move the chair forwards as far as is practicable or until the back is vertical. Allow the chair to rock rearwards freely under gravity.	NA
Loungers (EN 1022:2023, 8)		NA
<p>Strength and durability (EN 12520:2024, 5.3)</p> <p>a) The product shall comply with the applicable requirements in 5.1 before and after testing according to 5.3.</p> <p>b) If the minimum forces given in any of the tests in Table 1 which are applicable, are not achieved, the product shall be considered to have failed the requirements.</p> <p>The strength, durability and stability requirements are fulfilled when, after testing in accordance with Table 1:</p> <p>c) there are no fractures of any member, joint or component;</p> <p>d) there is no loosening of joints intended to be rigid;</p> <p>e) seating fulfils its functions after removal of the test loads;</p> <p>f) seating fulfils the stability requirements (5.2).</p>		



Test Item	Test Method & Test Requirement	Test Result
Seat static load and back static load test (EN 1728:2012, 6.4)	For seating without a back rest, only seat force shall be applied. Load seat not being tested with 750 N. Apply specified seat force 1300 N at the seat loading position. With the seat force maintained, apply specified back force 450N at back loading position or at 100 mm below the top of the back. When the back inclination θ is $\leq 55^\circ$ & $< 70^\circ$ to horizontal: Seat force F_1 (N) = $1300 \times \sin \theta$ Back force F_2 (N) = $(\theta/60^\circ - 0.1666) \times 1300 \times \cos \theta$ When the back inclination θ is $< 55^\circ$ to horizontal: Seat force F_1 (N) = 1300×0.75 Back force F_2 (N) = $1300 \times 0.75 \times \cos \theta$ Repeat the operation for 10 cycles, 10s each cycle. If the item tends to overturn, reduce F_2 (min. 410N) to prevent rearwards overturning.	PASS
Seat front edge static load test (EN 1728:2012, 6.5)	Load seat not being tested with 750 N. Apply the force 1300 N at a point on the seat centre line 100 mm inwards from the front edge of the structure. Repeat the operation for 10 cycles, 10s each cycle. If the seating tends to overturn, reduce the force to a magnitude that just prevents overturning.	PASS
Foot rest static load test (EN 1728:2012, 6.8)	Not apply to seating with a seat height ≤ 600 mm. Apply a downward force 750N to seat at the seat loading point. Apply a vertical force 1000N acting 80 mm from front edge of the load bearing structure of the foot rest at the point most likely to cause failure. For round cross section ring shaped footrests, apply the force through the centre of the ring cross section. Repeat the operation for 10 cycles, 10s each cycle. If the seating tends to overturn, increase the load on seat to a magnitude that just prevents overturning.	NA
Leg rest static load test (EN 1728:2012, 6.9)	This test is only applicable to leg rests designed to support the full weight of the user. Apply the downward force of 750 N to the seat at the seat loading point. Apply 1000 N force 100 mm in from the outer edge of the leg rest at the point most likely to cause failure. If the seating tends to overturn, increase the load on seat to a magnitude that just prevents overturning. Repeat the operation for 10 cycles, 10s each cycle.	PASS
Arm rest sideways static load test (EN 1728:2012, 6.10)	Apply an outward force 300N to one arm rest or to each arm rest of the unit simultaneously at the points along the arm rest most likely to cause failure, but not less than 100 mm from the end of the arm rest structure. Repeat the operation for 10 cycles, 10s each cycle.	PASS
Arm rest downwards static load test (EN 1728:2012, 6.11)	Apply vertical force 750N to the arm rest or to both arm rests simultaneously at the points along the arm rest most likely to cause failure, but not less than 100 mm from the end of the arm rest structure. Repeat the operation for 10 cycles, 10s each cycle.	PASS



Test Item	Test Method & Test Requirement	Test Result
Combined seat and back durability test (EN 1728:2012, 6.17)	For seating without a back rest, only seat force shall be applied. Load seat not being tested with 750 N. Apply specified seat force 1000N at the seat loading position. With the seat force maintained, apply specified back force 300N at back loading position or at 100 mm below the top of the back. When the back inclination \emptyset is $\leq 55^\circ$ & $< 70^\circ$ to horizontal: Seat force F_3 (N)= $1000 \times \sin \emptyset$ Back force F_4 (N)= $(\emptyset/60^\circ - 0.1666) \times 1000 \times \cos \emptyset$ When the back inclination \emptyset is $< 55^\circ$ to horizontal: Seat force F_3 (N) = 1000×0.75 Back force F_4 (N) = $1000 \times 0.75 \times \cos \emptyset$ Repeat the operation for 25000 cycles. If the item tends to overturn, reduce F_4 to prevent rearwards overturning.	PASS
Seat front edge durability test (EN 1728:2012, 6.18)	Apply the vertical force 800N alternately on two points each 100mm from the front edge of the seat structure and as near as possible to either side of the seat but not less than 100mm from the edges. Repeat the test for 20000 cycles. If the item tends to overturn, reduce the force to a magnitude that just prevents overturning.	PASS
Seat side-to-side durability test (EN 12520:2024, Annex A)	Only apply for single column. Apply the vertical seat force of 1100 N alternately in positions D and G. One cycle shall consist of the application and removal of the forces at the respective loading points. Repeat the test for 10000 cycles. If the seating tends to overturn reduce the force (min. 800 N). If the seating still tends to overturn even with the minimum force, fix the seating base to the floor.	NA
Arm rest durability test (EN 1728:2012, 6.20)	Apply the force of 400 N on each arm rest at the point most likely to cause failure, but not less than 100 mm from the front or rear edge of the arm rest length and through the centre of the width of the arm rest, but not more than 100 mm from the inner edge of the arm rest. Repeat the test for 10000 cycles.	PASS
Leg forward static load test (EN 1728:2012, 6.15)	Not applicable for swivelling single column. Apply the seat load 1000N to all seat loading positions. Apply a horizontal force 400N centrally to the rear of the seat or to the rear of the most adverse seat position for seating with multiple seating positions, at seat level, in a forward direction. Repeat the operation for 10 cycles, 10s each cycle. If the item tends to overturn, reduce the force to a magnitude that just prevents overturning.	PASS
Leg sideways static load test (EN 1728:2012, 6.16)	Not applicable for swivelling single column. Apply the seat load 1000N at a suitable position across the seat but not more than 150 mm from the unloaded edge of the seat. Apply a horizontal force 300N centrally to the unrestrained side of the seat, at seat level, in a direction towards the restrained feet. Repeat the operation for 10 cycles, 10s each cycle. If the item tends to overturn, reduce the force to a magnitude that just prevents overturning.	PASS



Test Item	Test Method & Test Requirement	Test Result
Seat impact test (EN 1728:2012, 6.24)	Allow the seat impactor to fall freely from a height 180 mm onto the seat loading position. Apply the operation for specified cycles (fixed seat height: 10 cycles; adjustable seat height: 5 cycles in highest position and 5 cycles in lowest position). Repeat the test at one other position considered likely to cause failure, but not less than 100 mm from any edge of the seat.	PASS
Backwards fall test (EN 1728:2012, 6.28)	This test is only for single seating units where the back will be the first part of the structure to strike the floor and the force used to overturn the chair rearwards is less than 30 N. Apply a rearward horizontal load to a point 50 mm below the top of the back rest in the centre of the back rest. Push the top of the back rest rearwards and allow it to fall freely on its back onto the rubber faced test floor without initial force or velocity. Repeat the operation for 5 cycles.	NA
Back impact test (EN 1728:2012, 6.25)	This test is for all seating not tested in accordance with Backwards Fall Test. With the front legs, feet or castors restrained by stops from moving forward, strike the structure of the centre of the top outside of the back with the impact hammer through a height 120 mm (or angle 28°). Repeat the operation for 10 cycles.	PASS
Durability of electrically operated seating products (EN 13759:2012)	Operate the seating for 5000 cycles with a 100 kg test dummy positioned on the sample.	PASS
Information for use (EN 12520:2024, 6)		
Information for use (EN 12520:2024, 6)	Information for use shall be available in the language of the country in which it will be delivered to the end user. It shall contain at least the following details: a) information regarding the intended use (i.e. domestic use); b) assembly instructions, where applicable; c) instructions for the care and maintenance of the seating; d) if the seating is fitted with seat height adjustments with energy accumulators, an additional note is required pointing out that only trained personnel may replace or repair seat height adjustment components with energy accumulators.	NT



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Test Conducted: EK5/AK3 13-06.1:2023 Test Principles for the Safety of armchairs with electric elements

Test Result:

Paragraph /Clause	Requirements / Tests	Measuring result - Remark	Verdict
1.	<p>Foreword</p> <p>This test principle takes into account the existing regulations, technical rules and scientific findings for testing the safety of armchairs with electrical components in the domestic area (e.g. TV and massage chairs). The aim of the test principle is to provide the recognised bodies with uniform assessment criteria for the award of the GS mark. The test principle combines the previously separately certified mechanical and electrical safety requirements.</p>	/	/
2.	<p>Scope of application</p> <p>This test principle applies to the testing of the safety of armchairs with electrical components in the domestic area (e.g. TV and massage chairs). Additional electrotechnical functions such as play functions or luminaires are not covered by this test principle and, depending on the design, must be evaluated with a separate hazard analysis. Properties within the meaning of the Medical Devices Act are excluded from this test principle.</p>	/	/
3.	<p>Normative references</p> <p>[1] DIN EN 13759: Furniture - Functional mechanisms for seating furniture and sofa beds - Test procedure 2012-06</p> <p>[2] DIN EN 12520: Furniture - Strength, Durability and Safety - Requirements for domestic seating 2016-03</p> <p>[3] DIN EN 16139: Furniture - Strength, Durability and Safety - Requirements for non-domestic seating 2014-03</p> <p>[4] DIN EN 1728: Furniture - Seating - Test methods for the determination of strength and durability 2014-02</p> <p>[5] DIN EN 1022: Furniture - Seating - Determination of stability 2019-04</p> <p>[6] DIN EN 60335-1: Household and similar electrical appliances - Safety - Part 1: General requirements 2020-08</p> <p>[7] DIN EN 60335-2-17: Household and similar electrical appliances - Safety - 2022-03</p>	/	/



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Paragraph /Clause	Requirements / Tests	Measuring result - Remark	Verdict
[8]	DIN EN IEC 60335-2-32: 2022-02	Part 2-17: Particular requirements for blankets, pads, clothing and similar flexible heating appliances Household and similar electrical appliances – Safety – Part 2-32: Particular requirements for massage appliances	
[9]	DIN EN 61000-3-2: 2019-12	Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	
[10]	DIN EN 61000-3-3: 2020-07	Electromagnetic compatibility (EMC) – Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	
[11]	DIN EN 55014-1: 2018-08	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus Part 1: Emission	
[12]	DIN EN 55014-2: 2016-01	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus Part 2: Immunity - Product family standard	
[13]	DIN EN 62233: 2008-11 and correction 1: 2009-04	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure	
[14]	DIN EN ISO 13849-1:2015-12	Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design	
[15]	DIN EN IEC/IEEE 82079-1:2021-09	Preparation of information for use (instructions for use) of products – Part 1: Principles and general requirements	
[16]	DIN EN ISO 12100:2011-03	Safety of machinery - General principles for design - Risk	



Paragraph /Clause	Requirements / Tests	Measuring result - Remark	Verdict
		assessment and risk reduction	
[17]	AfPS GS 2019:01 PAK	Testing and evaluation of polycyclic aromatic hydrocarbons (PAHs) when granting the GS mark	
[18]	EK 5 / 13-11	Decision to examine the durability of inscriptions	
[19]	ProdSG: 27.07.2021	Product Safety Act (ProdSG)	
[20]	EMVG: 27.6.2017	Act on the Electromagnetic Compatibility of Equipment* (Electromagnetic Compatibility Act - EMVG)	
[21]	BlmSchV: 2013-08	Twenty-sixth Regulation on the Implementation of the Federal Emission Protection Act [Regulation on Electromagnetic Fields - 26. BlmSchV	
[22]	1. ProdSV: 27.7.2021	First Regulation on Product Safety Law1 (Ordinance on Electrical Equipment)1. ProdSV)	
[23]	9. ProdSV: 27.7.2021	Ninth Regulation on the Product Safety Act [Machinery Ordinance]	
[24]	ChemVerbotsV 19.6.2020	Regulation on Prohibitions and Restrictions of Marketing and on the Supply of Certain Substances, Mixtures and Products under the Chemicals Act (Chemicals Prohibition Ordinance ChemVerbotsV)	
[25]	Machinery Directive [06/42/EC] 17. May 2006	DIRECTIVE 2006/42/EC OF THE EUROPEAN PARLIAMENT AND COUNCIL from May 17, 2006 on machinery and amending Directive 95/16/EC (recast) [26]	
[26]	Low Voltage Directive [2014/35/EU]	DIRECTIVE 2014/35/EC OF THE EUROPEAN PARLIAMENT AND COUNCIL from February 2, 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment for use within certain voltage	



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	<p>[27] EMC Directive [2014/30/EU] limits DIRECTIVE 2014/30/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of April 26, 2014 on the harmonisation of the laws of the Member States on electromagnetic compatibility (recast)</p> <p>[28] DIN EN 1335-2:2019-04 Office furniture – Office work chair – Part 2: Safety requirements</p> <p>[29] DIN EN 16955:2017-08 Furniture components –.Conical pressure pipes for self-supporting gas springs for height adjustment of seating furniture – Test methods and requirements for strength and durability</p> <p>[30] RoHS Directive, 11.2021 Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment</p> <p>[31] REACH Regulation 02.2022 European Chemicals Regulation on the Registration, Evaluation, Authorisation and Restriction of Chemicals.</p> <p>[32] EnVKV Regulation 02.2021 Regulation on the labelling of energy-related products with information on the consumption of energy and other important resources</p> <p>[33] CEC Decision 06-22 Principal Decision on the Specification of Requirements for GS Mark Approval pursuant to Section 5 ProdSG ZEK-GB-2017-01 Rev. 2, point 5(c)</p>		
4.	Terms If the normative references do not clarify all the necessary terms, definitions should be added.	/	/
5.	General test conditions	/	/
5.1.	Preparation Before starting the test, it must be ensured that the test object has reached its full strength. The furniture must be checked as delivered. Furniture intended for assembly shall be installed as assembly	/	/



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	<p>instructions provided.</p> <p>Where the furniture can be assembled or combined in different ways according to the instructions for use, the most unfavourable combination shall be used for each test. Connecting fittings for removable furniture shall be tightened prior to testing. A subsequent tightening of the fittings may not take place unless expressly requested by the manufacturer. Unless otherwise specified by the manufacturer, the test specimen shall be kept indoors for at least 24 hours immediately prior to the test.</p> <p>The tests shall be carried out under indoor conditions. However, if during the test the temperature is not within the range of 15 °C to 25 °C, the highest and/or lowest temperature shall be indicated in the test report. If a test cannot be carried out as specified, it shall be carried out as far as possible in accordance with this specified specification.</p> <p>Any modification to the test procedure shall be technically assessed and noted in the test report.</p>		
5.2.	<p>Application of forces</p> <p>In durability tests and static tests, the forces must be applied so slowly that the influence due to dynamic loads is negligibly low.</p> <p>For durability tests, the forces must be applied so slowly that no dynamic heating occurs.</p> <p>Unless otherwise specified, static loads [10 ± 2] s and durability loads [2 ± 1] s shall be maintained.</p> <p>The forces may be replaced by masses. The ratio 10 N =1 kg shall be used.</p>	/	/
5.3.	<p>Limit deviations</p> <p>Unless otherwise specified, the following limit deviations shall apply to the test equipment:</p> <ul style="list-style-type: none"> - Forces: ± 5 % of rated force; - Masses: ± 1 % of the nominal mass; - Dimensions: ± 1 mm of the nominal dimensions; - Angle: ± 2° of the nominal angle. <p>Loading pads and impact plates shall be positioned with limit dimensions of ± 5 mm</p> <p>NOTE: For the purpose of measuring uncertainty, it is assumed that the test results will not be adversely affected if the above limit deviations are observed.</p>	/	/
5.4.	<p>Documents to be provided</p> <p>Documents shall be accompanied with the application, where necessary by the nature of the electrified chair, by:</p> <ul style="list-style-type: none"> - Details of the design and intended and foreseeable use, e.g. brochure, type list, catalogue, website with date of 	/	/



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Paragraph /Clause	Requirements / Tests	Measuring result - Remark	Verdict
	<p>issue</p> <ul style="list-style-type: none"> - Description of the TV or massage chair, component certificates, data sheets - Photos, drawings, load specifications, parts list, function description, calculation documents if applicable - Declaration of conformity, if applicable. Risk assessment - Circuit diagrams and possibly other design documents and calculation documents - User information. <p>Documents provided must not be more than one year.</p>		
<p>5.5.</p>	<p>Test sample</p> <p>The test shall be ready for operation or ready-to-use armchairs with electrical components (e.g. TV or massage chairs) in the number specified by the testing body. The armchair must correspond to the products of the current series.</p> <p>If necessary, representatives of the client must be present who can provide the necessary information on the construction, equipment, operation and operation of the chair. For furniture for self-assembly, assembly according to assembly instructions is part of the test.</p> <p>Decision 01-04 of EK5/AK3 shall be observed. For electrical components, the requirements of [6] shall be met.</p>	/	/
<p>5.6.</p>	<p>Test order</p> <p>The test steps referred in point 4. – 6. shall be carried out in the specified order and on a type. A separate type may be used for electrotechnical and chemical tests.</p> <ol style="list-style-type: none"> 1. Material use 2. Exterior design, surface 3. General design requirements 4. Stability (optional) 5. Strength – durability 6. Stability 7. Drive and steering test 8. Electrical equipment 9. Information and labelling <p>For higher loads, it is necessary to increase the requirements. After the tests, the requirements are met if:</p> <ul style="list-style-type: none"> - no part, component or connecting element is broken - no connecting element has been loosened, which must be fixed - no bearing element has significantly deformed - the type still fulfils its functions after removal of the test load and must not pose a danger to the user in any way - the adjustment devices (massage, tilting positions) fulfil their function(s); and - Electrical safety is not affected in any way. 	/	/



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Paragraph /Clause	Requirements / Tests	Measuring result - Remark	Verdict
7.	Tests	/	/
7.1.	Material use	/	/
7.1.1.	Proof according to PAH requirements according to [17].	Not tested	/
7.1.2.	In order to protect humans and the environment from hazardous chemicals, the relevant directives and legal requirements for this product must be observed and fulfilled in an appropriate manner [24] and [31] and, if suspected, subjected to testing.	Not tested	/
7.2.	Shear and crushing points The requirements of [2] point 5.2 shall be complied with.	No failure	PASS
7.3.	Operation and ergonomics Controls must be accessible by the user in any operating state.	Accessible	PASS
7.4.	General design requirements The requirements of [2] point 5.1 shall be complied with.	No failure	PASS
7.5.	Stability (optional) The requirements set out in [2] point 5.3 shall be complied with	No tipping over	PASS
7.6.	Strength and durability tests	/	/
7.6.1.	Static load test on seat and backrest The test shall be carried out in accordance with [4] point 6.4 10 x with a seat load of 1300 N and a backrest load of 450 N.	No failure	PASS
7.6.2.	Static load on the front seat edge The test shall be carried out in accordance with [4] point 6.5 10 x with a seating load of 1300 N.	No failure	PASS
7.6.3.	Static load test of leg rest, designed to support the total weight of the user The test shall be carried out in accordance with [4] point 6.9 with 10 x 600 N.	No failure	PASS
7.6.4.	Static load test in the lateral direction on the armrests and headrests The test shall be carried out at 10 x 300 N in accordance with [4] paragraph 6.10.	No failure	PASS
7.6.5.	Downward static load test of the armrest The test shall be carried out in accordance with [4] point 6.11 with 10 x700 N.	No failure	PASS
7.6.6.	Combined durability test on seat and backrest The test is according to [4] point 6.17 with 25000 cycles seat load of 1000 N / Backrests load of 300 N.	No failure	PASS



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Paragraph /Clause	Requirements / Tests	Measuring result - Remark	Verdict
7.6.7.	Durability test on the front edge of the seat surface The test shall be carried out in accordance with [4] point 6.18 with 20000 cycles at the front edge of the seat with a load of 800 N.	No failure	PASS
7.6.8.	Durability test of the armrest The test shall be carried out according to [4] point 6.20 with 10000 cycles with x 400 N.	No failure	PASS
7.6.9.	Forward static load test of legs The test shall be carried out according to [4] point 6.15 with 10 x max 400 N at 1000 N seating load.	No failure	PASS
7.6.10.	Lateral static load test of legs The test shall be carried out according to [4] point 6.16 with 10 x max 300 N at 1000 N seating load.	No failure	PASS
7.6.11.	Impact test of the seat surface The test shall be carried out according to [4] point 6.24 at 10 x 180 mm drop height.	No failure	PASS
7.6.12.	Impact test on the backrest The test is carried out according to [4] point 6.25 with 10 x from 120 mm drop height or angle 28 °.	No failure	PASS
7.6.13.	Drop test of seating The test shall be carried out in accordance with [4] point 6.27 with 10 cycles at a drop height of 100 mm. Note: by way of derogation from [4], this test is also carried out for this product type (single-seat furniture).	No failure	PASS
7.6.14.	Drive and operate as endurance test The test shall be carried out using the rated load according to [1] paragraph 4.1, taking into account the permissible start-up periods of 10000 cycles. During the test, the temperature of the electrical components must be controlled, for example, by means of thermocouples. The relevant requirements of [6], [7] and [8] shall be complied with.	Peak temperature on electrical driver: 48.6 °C No mechanical failure after durability test	PASS
7.6.15.	Self-supporting seat height adjusting elements with energy storage The conical pressure tubes for self-supporting seat height adjusting elements with energy storage must meet the requirements of [29].	NA	/



Paragraph /Clause	Requirements / Tests	Measuring result - Remark	Verdict
7.7.	Stability (mandatory) The requirements set out in [2] point 5.3 shall be complied with.	No tipping over	PASS
7.8.	Determination of the operating function The test shall be carried out in accordance with [1] point 5.1.	No failure	PASS
8.	Electrical Equipment	/	/
8.1.	Electrical equipment - with electromotor adjustment according to machine directive The requirement for the GS mark is in accordance with [25]. Electrically operated chairs are generally tested according to [6]. In individual cases, evidence must also be taken into account according to other, additional safety standards, e.g. for massage function [8]. In addition, the following criteria must be met: – Typing operation, – no wireless remote control, – no time control for adjustment function.	NT	/
8.2.	Electrical equipment - without electric motor adjustment, movement according to the Low Voltage Directive The requirement for the GS mark is in accordance with [26]. Electrically operated chairs are generally tested according to [6]. In individual cases, evidence according to other additional safety standards must also be taken into account, e.g. for heating function in the seat or back [7]. Electromagnetic fields (EMF) test according to [13], [9], [10] and [11]	NT	/
8.3.	Electromagnetic compatibility [EMCG] The requirement for the GS mark is in accordance with [20] and [27]. This can be done by the manufacturer's declaration of conformity. Electromagnetic fields (EMF) test according to [13], [9], [10] and [11]	NT	/
8.4.	Machine safety; [23], [25] Provided that the required documentation and evidence of the risk assessment carried out and documented is available, the requirements of [23] may be considered to be fulfilled.	NT	/
9.	Information and labelling	/	/
9.1.	User Information User information must be enclosed with the product and produced in a durable form. It shall contain information on the full scope and intended use.	NT	/



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	<p>User information must be provided in the respective official/national German language and additionally in [33].</p> <p>The User Information must comply with the applicable policies and legal requirements for the Product and comply appropriately with [30] and [32].</p> <p>The user information must be designed in accordance with [15] 9.10 legibility, legibility and comprehensibility.</p> <p>In the case of footrests which do not fold automatically, a notice shall be included in the user information that the footrest must not be used for sitting.</p>		
<p>9.2.</p>	<p>Product marking [19] [25]</p> <p>Controls elements must be clearly identified according to their function.</p> <p>For electrified armchairs, the following information shall be at least:</p> <ul style="list-style-type: none"> - Model name/type designation/serial number - Name and address of the manufacturer - max. load in kg (if the maximum normatively required user weight is exceeded from 110 kg to [2]) - Design voltage in current type or frequency/rated current or power consumption/protection class if required - Warnings where necessary - CE marking 	<p>NT</p>	<p>/</p>
<p>9.3.</p>	<p>Durability of safety markings</p> <p>The marking shall be legible, firm and durable, taking into account the service life of the electrified seat [6] and [18].</p>	<p>NT</p>	<p>/</p>

Remark:

1. NA = Not applicable; NT = Not tested
2. The results show in this test report refer only to the sample(s) tested.
3. 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.



Sample Information

Overall dimension: 1820 mm (D)×2680 mm (W)×840 mm (H)
Weight: 109.30 kg

Photo Appendix



Sample as received - View 1



Sample as received - View 2

SGS authenticate the photo on original report only

End of Report



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