

Test Report

No.: AJHL2312004826FT-1

Date: JAN 26, 2024

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NINE UNITED LIMITED

F15 NO.100 EAST YAN'AN ROAD, SHANGHAI, CHINA

THIS TEST REPORT IS TO SUPERSEDE TEST REPORT NO.: AJHL2312004826FT, DATE: DEC 29, 2023

*Sample Description : PALISSADE CORD CHAISE LONGUE

Country of Origin : CHINA

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.

SGS Ref No. : TJHL2311009184FT

Sample Receiving Date : DEC 12, 2023

*Test Performing Date : DEC 12, 2023 to JAN 25, 2024

Test Performed : Selected test(s) as requested by applicant

Test Result Summary

No.	Test(s) Requested	Result(s)
1	EN 581-1:2017	PASS
2	EN 581-2:2015/AC:2016 (Contract use, for loungers) Excluding Clause 8 information for use. Stability test was tested in accordance with EN 1022:2018	PASS
*3	Refer to EN 16139:2013 (Test Severity: L2) Excluding Clause 7 information for use	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 581-2:2015/AC:2016 Outdoor furniture – Seating and tables for camping, domestic and contract use – Part 2: Mechanical safety requirements and test methods for seating (for loungers)

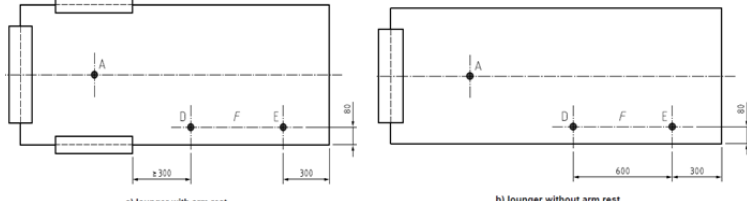
Test Result:

Test Item	Test Method & Test Requirement	Test Result
Safety, strength and durability requirements for loungers (EN 581-2:2015/AC:2016, 6)		/
General (EN 581-2:2015/AC:2016, 6.1)		
Before and after the strength, durability and stability tests are carried out, the requirements of EN 581-1 shall be fulfilled.		
General (EN 581-1:2017, 5.1)	In order to avoid physical injury when the product is in its intended position of use, all edges and corners shall be rounded, chamfered or otherwise protected. This applies to: — Seating: Edges of the seat, back rest and arm rests and any part of the bottom surface of the seat at a distance less than 120 mm from any edge, where a finger can commonly access. All other parts shall be free from burrs, sharp edges and sharp points. Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided. It shall not be possible for any load bearing part of the furniture to come loose unintentionally. All parts which are lubricated to assist sliding shall be designed to protect users from lubricant stains when in normal use.	PASS
Tubular components (EN 581-1:2017, 5.2)	There shall be no accessible holes in the ends of tubular components with a diameter between 7 mm to 12 mm and with a depth more or equal to 10 mm. The bottom of tubular legs in contact with the floor shall be closed or capped, however, holes in them are allowed as long as they are not between 7 and 12 mm.	PASS
Shear and squeeze points when erecting, adjusting and folding away (EN 581-1:2017, 5.3.1)	Unless 5.3.2 or 5.3.3 are applicable, shear and squeeze points that are created only during erecting, adjusting or folding away are acceptable providing the user can be assumed to be in control of his/her movements and to be able to cease applying the force immediately on experiencing pain.	NA
Shear and squeeze points under the influence of powered mechanisms (EN 581-1:2017, 5.3.2)	There shall be no accessible shear and squeeze points created by parts of the furniture operated by powered mechanisms, e.g. mechanical springs and gas lifts.	NA

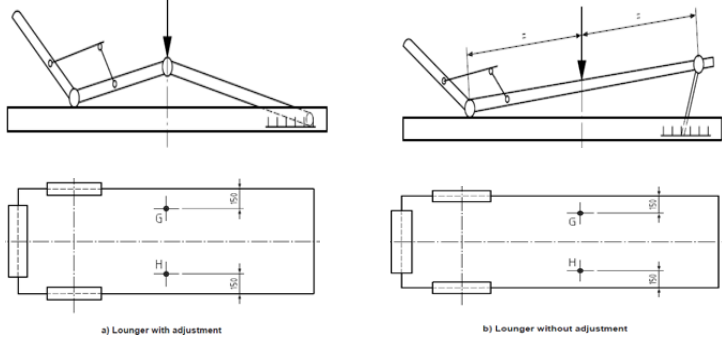


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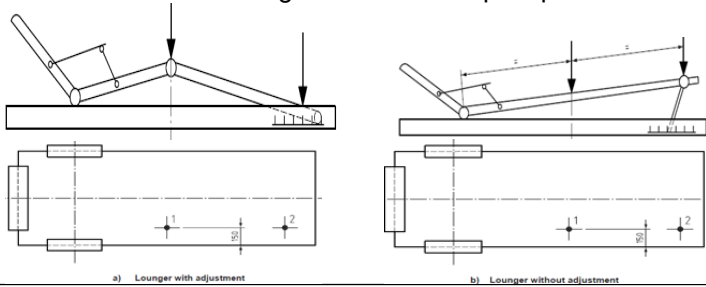
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Test Item	Test Method & Test Requirement	Test Result
Shear and squeeze points during use (EN 581-1:2017, 5.3.3)	There shall be no accessible shear and squeeze points created by loads applied during normal use. Shear and squeeze points are not acceptable if there is a risk of injury created by the weight of the user during normal movements and actions, e.g. attempting to move the seating by lifting the seat or by adjusting the backrest. For loungers, the loads applied during normal use are the loads used for the following mechanical tests in Table 1 of EN 581-2:2015: — Test 2: Additional seat and leg rest static load; — Test 3: Seat and back durability; — Test 4: Additional seat durability; — Test 5: Durability on back rest mechanism.	PASS
Stability, strength and durability (EN 581-2:2015/AC:2016, 6.2) The safety, strength and durability requirements are fulfilled after testing in accordance with Table 1 when: a) there are no fractures of any joint, member or component, b) there is no loosening of joints intended to be rigid, c) the lounge fulfils its function after removal of the test loads, d) the product shall not overturn when subjected to the stability tests.		
Seat and back static load test (EN 1728:2012, 8.2)	For seating without a back rest, or seat and back are of one piece of flexible material (e.g. textile), only seat force(s) shall be applied. Apply specified seat force of 2000N at the seat loading position. Apply specified back force of 560N 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) = Specified seat force x Sin θ Back force F_2 (N) = ($\theta/60^\circ - 0.1666$) x Specified seat force x Cos θ When the back inclination θ is $< 55^\circ$ to horizontal: Seat force F_1 (N) = Specified seat force x 0.75 Back force F_2 (N) = Specified seat force x 0.75 x Cos θ Repeat the operation for 10 cycles, 10s each cycle. Apply additional operation 1 cycle for 30 min. If the item tends to overturn, reduce F_2 (min. 500N) to prevent rearwards overturning.	PASS
Additional seat and leg rest static load test (EN 1728:2012, 8.3)	Load a seat load of 750 N at the seat loading point. Apply the force of 900N at the most adverse position between point D and E. Apply a sufficient load to the opposite side of to the most adverse load position to prevent overturning if the item tends to overturn. Repeat the operation for 10 cycles, 10s each cycle. Apply additional operation 1 cycle for 30 min. 	PASS



Test Item	Test Method & Test Requirement	Test Result
Seat and back durability test (EN 1728:2012, 8.4.1)	For seating without a back rest, or seat and back are of one piece of flexible material (e.g. textile), only seat force shall be applied. Apply specified seat force of 1000N at the seat loading position. Apply specified back force of 333N 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_3 (N) = $1000 \times \sin \theta$ Back force F_4 (N) = $(\theta/60^\circ - 0.1666) \times 1000 \times \cos \theta$ When the back inclination θ is $< 55^\circ$ to horizontal: Seat force F_3 (N) = 1000×0.75 Back force F_4 (N) = $1000 \times 0.75 \times \cos \theta$ Repeat the operation for 50000cycles. If the item tends to overturn, reduce F_4 (min. 300N) to prevent rearwards overturning.	PASS
Additional seat durability test (EN 1728:2012, 8.4.2)	Apply the vertical seat durability load of 1000N alternately at points G and H. Repeat the operation for 20000cycles. 	PASS
Durability test on back rest mechanism (EN 1728:2012, 8.5)	Only apply to seating with three or more manually adjustable reclined positions of the back rest. Load seat loading point with 1000 N. With the back rest in the most adverse position or in the mid position, apply rearwards alternating forces of 250N perpendicularly to the back rest at the points 100 mm above the back loading point and 50 mm from the right and left outer edges of the back rest. Repeat the operation for 20000cycles.	NA
Arm rest static load test (EN 1728:2012, 8.6)	Apply vertical force of 900N (apply 700N for armrest wide less than 15 mm) 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.	NA
Arm rest durability test (EN 1728:2012, 8.7)	Apply the force of 400 N simultaneously to both arm rests 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 operation for 30000cycles.	NA

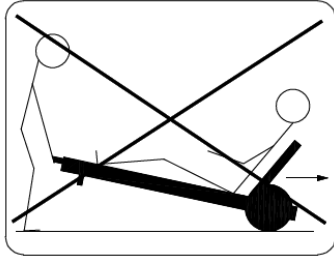


Test Item	Test Method & Test Requirement	Test Result
Impact test (EN 1728:2012, 8.8)	<p>Allow the seat impactor to fall freely from a height of 240 mm onto the application points. Apply the operation for 10 cycles.</p> <p>The application points shall be:</p> <ul style="list-style-type: none"> – the most adverse point on the seat-leg rest section, – 150 mm in from the edge of the lounger, and, – on the end support, 150 mm from any edge of the lounger on the same side of the lounger as the first impact position.  <p>a) Lounger with adjustment b) Lounger without adjustment</p>	PASS
Lifting test for mobile loungers (EN 1728:2012, 8.9)	<p>This test is only applicable to mobile loungers that are designed to be moved whilst an occupant is seated. Apply the seat load of 1000 N at the seat loading point. Lift the foot end of the lounger up to a height so that only the wheels are in contact with the floor surface. Repeat the operation for 2000 cycles.</p>	NA
Forwards overturning (EN 1022:2018, 8.3.1)	<p>Not applicable to loungers which have both a seat height < 200 mm and a mass < 5 kg.</p> <p>Apply a downwards force FB.3 of 600 N vertically acting at the point on the median plane of the lounger, 60 mm behind the front edge of the load bearing structure. Apply a force FB.4 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.</p>	PASS
Sideways overturning (EN 1022:2018, 8.3.2)	<p>Not applicable to loungers which have both a seat height < 200 mm and a mass < 5 kg.</p> <p>Simultaneously apply vertical forces FB.1 of 600 N at the points that are on a line 60 mm from one side of the lounger. The first point shall be 300 mm from the front edge of the structure of the lounger, with additional forces applied in 600 mm increments, but at least 300 mm from the rear edge of the lounger.</p> <p>For loungers with arm rests the distance of the vertical force FB.1 shall be at least 300 mm from the front edge of the arm rest construction. If the arm rest is more than 400 mm in length apply additional vertical force FB.2 of 250 N in the centre of the arm rest.</p>	PASS



Test Item	Test Method & Test Requirement	Test Result
Rearwards stability – upright position (EN 1022:2018, 7.3.6)	Not applicable to loungers which have both a seat height < 200 mm and a mass < 5 kg. The test is not applicable to seating that has adjustable back rest inclination that cannot be locked in position. Apply a vertical force F1 of 600N to the seat at seat loading point. Apply the force F2 (F2 = 80 N if H ≥ 720 mm; F2 = 0.2857(1000-H) N if H < 720 mm. H = Height of loaded seat above the floor, in mm) for (5±2) s horizontally rearwards to the seating back at back loading point B, or at the top edge of back rest, whichever is the lower. When the seating has more than one sitting place, apply the procedure on two most adverse sitting places simultaneously.	PASS
Rearwards stability – reclined position (EN 1022:2018, 7.4.3)	Not applicable to loungers which have both a seat height < 200 mm and a mass < 5 kg. 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 (120±60) s.	PASS
Safety, strength and durability requirements for other seating (EN 581-2:2015/AC:2016, 7)		NA
Information for use (EN 581-2:2015/AC:2016, 8)		
General (EN 581-2:2015/AC:2016, 8.1)	Instruction for use shall be provided in the language(s) of the country where the seating are sold. These instructions shall be headed "IMPORTANT, RETAIN FOR FUTURE REFERENCE: READ CAREFULLY" in letters no less than 5 mm high, unless if the following information are permanently marked on the product. It shall contain at least the following details: a) name and address of the manufacturer/supplier/retailer; b) conditions for use of the product (domestic, camping or contract). If applicable: c) assembly instructions; d) instructions for the care and maintenance of the seating; e) 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



Test Item	Test Method & Test Requirement	Test Result
Marking for loungers (EN 581-2:2015/ AC:2016, 8.2)	<p>Loungers equipped with wheels, but not intended to be lifted and moved with a person in it shall be permanently marked with the pictogram as shown in Figure 2. The smallest dimension of the pictogram shall not be less than 25 mm.</p> 	NA

Remark:

- Type of Furniture:
Contract use: Outdoor seating intended for non-private use in places with public access.
- NA = Not applicable; NT = Not tested



***Test Conducted: Refer to EN 16139:2013 Furniture - Strength, durability and safety - Requirements for non-domestic seating**

Test Result:

Test Item	Test Method & Test Requirement	Test Result
General safety (EN 16139:2013, 4.1)		
General safety (EN 16139:2013, 4.1)	<p>All accessible parts shall be so designed that physical injury and damage are avoided.</p> <p>This requirement is met when:</p> <ul style="list-style-type: none"> a) accessible corners are rounded or chamfered; b) the edges of the seat, back rest and arm rests which are in contact with the user when sitting in the chair are rounded or chamfered; c) the edges of handles are rounded or chamfered in the direction of the force applied; d) all other edges are free from burrs and rounded or chamfered; e) the ends of hollow components are closed or capped. <p>Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided.</p> <p>It shall not be possible for any load bearing part of the seating to come loose unintentionally.</p> <p>All parts which are lubricated to assist sliding shall be designed to protect users from lubricant stains when in normal use.</p>	PASS
Shear and squeeze points (EN 16139:2013, 4.2)		
Shear and squeeze points when setting up and folding (EN 16139:2013, 4.2.1)	<p>Unless 4.2.2 or 4.2.3 are applicable, shear and squeeze points that are created only during setting up and folding, including tipping seat actions, are acceptable, because the user can be assumed to be in control of his/her movements and to be able to cease applying the force immediately upon experiencing pain.</p> <p>The edges of parts moving relative to each other and creating shear and squeeze points shall be as specified in 4.1.</p>	NA
Shear and squeeze points under the influence of powered mechanisms (EN 16139:2013, 4.2.2)	<p>With the exception of tipping seats there shall be no shear and squeeze points created by parts of the seating operated by powered mechanisms, e.g. springs and gas lifts.</p>	NA
Shear and squeeze points during use (EN 16139:2013, 4.2.3)	<p>There shall be no shear and squeeze points created by forces applied during normal use as well as during normal movements and actions, see Table 1.</p>	PASS
Stability (EN 16139:2013, 4.3)		
<p>The seating shall not overturn under the following conditions:</p> <ul style="list-style-type: none"> a) by pressing down on the front edge of the seat surface in the median plane; b) by applying a load on the seat surface via the front corner; c) by leaning sideways on a with or without arm rests; d) by leaning against the back rest; e) by sitting on the front edge of the seat; f) by loading the foot rest. 		



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Test Item	Test Method & Test Requirement	Test Result
Swivelling chairs (EN 16139:2013, 4.3.2) Requirements a) to e) are considered to be met if the seating complies with 4.3 of EN 1335-2:2009. Requirements a) to f) are considered to be met if the seating complies with EN 1022.		NA
Non swivelling chairs (EN 16139:2013, 4.3.3) The seating shall fulfil the relevant requirements of EN 1022.		/
All seating except loungers (EN 1022:2018, 7)		
General (EN 1022:2018, 7.1)	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.	/
Test procedures, all seating (EN 1022:2018, 7.3)		
Forwards overturning (EN 1022:2018, 7.3.1)	Apply a force F_1 of 600 N (for seating with multiple seats apply two forces simultaneously) 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 from the point each vertical load contacts the seat surface for (5 ± 2) s. For seating with a leg rest to support the weight of the user, repeat the test procedure on the leg rest with the leg rest fully extended.	PASS
Forwards overturning for seating with foot rest (EN 1022:2018, 7.3.2)	For seating with tubular foot rests or the foot rest depth is less than 120 mm, apply the vertical force F_1 of 600 N at the most onerous point along the tube centre line or the middle of the foot rest surface. For all other seating with foot rests apply the vertical force F_1 of 600 N at the most onerous point 60 mm from the edge of the foot rest. Apply a force F_2 of 20 N horizontally outwards from the point the vertical load contacts the foot rest surface for (5 ± 2) s.	NA
Corner stability test (EN 1022:2018, 7.3.3)	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 (5 ± 2) s. For seating with multiple seats apply the force F_1 at the loading point on one outside seating position.	PASS
Sideways overturning, all seating without arm rests (EN 1022:2018, 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. In the transverse plane, apply a sideways force F_2 of 20 N horizontally outwards from the point the vertical load contacts the seat surface for (5 ± 2) s.	PASS



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Sideways overturning, all other seating with arm rests (EN 1022:2018, 7.3.5.2)	This test is applicable to all seating with arms on the transverse plane is more than 50 mm above the seat loading point. 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 .	NA
Sideways overturning, all other seating with raised side edges (EN 1022:2018, 7.3.5.3)	This test is applicable to all seating where the seat top edge on the transverse plane is more than 50 mm above the seat loading point. 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 at a position no greater than 40 mm inwards from the outside edge of the raised edge on the side nearest the stopped feet and on the transverse plane. If the distance between the loading points is less than 200 mm, apply a force that provides the same overturning moment of the combined forces F_1 and F_2 at the most suitable point on the transverse plane. 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 1022:2018, 7.3.6)	The test is not applicable to seating that has adjustable back rest inclination that cannot be locked in position. Apply a vertical force F_1 of 600N 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 $H < 720$ mm. H = Height of loaded seat above the floor, in mm) for (5±2) s horizontally rearwards to the seating back at back loading point B, or at the top edge of back rest, whichever is the lower. When the seating has more than one sitting place, apply the procedure on two most adverse sitting places simultaneously.	PASS
Additional test procedures for seating with reclining back rests (EN 1022:2018, 7.4)		
Tilt chairs (EN 1022:2018, 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 11 loading discs so that the discs are firmly settled against the back rest. Apply the loads for (120±60) s.	NA



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Member of the SGS Group (SGS SA)

Test Report

No.: AJHL2312004826FT-1

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Test Item	Test Method & Test Requirement	Test Result
Reclining seating with leg rest (EN 1022:2018, 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 (120 ± 60) s.	PASS
Reclining seating without leg rest (EN 1022:2018, 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 (120 ± 60) s.	NA
Rearwards stability test for rocking chairs (EN 1022:2018, 7.4.5)	This test replaces the rearwards overturning test from 7.3.6. Load the chair with 8 loading 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 1022:2018, 8)		NA
Rolling resistance of the unloaded chair (EN 16139:2013, 4.4)		
Rolling resistance of the unloaded chair (EN 16139:2013, 4.4)	This subclause is only applicable to single seating units fitted with castors or wheels. The unloaded seating shall not roll unintentionally. This requirement is met when: - the rolling resistance is ≥ 12 N when tested in accordance with EN 1335-3:2009, 7.4; and - all castors are of the same type. The chair shall be placed on the test surface and shall be pushed or pulled over a distance of at least 550 mm. A speed of (50 ± 5) mm/s shall be maintained over the measuring distance. The force shall be applied at a height of (200 ± 50) mm above the test surface. Record the force used to push or pull the chair over the distance from 250mm to 500mm as rolling resistance.	NA
Safety, strength and durability requirements (EN 16139:2013, 5)		
These safety, strength and durability requirements are fulfilled when during and after testing in accordance with Table 1: a) there are no fractures of any member, joint or component; b) there are no loosening of joints intended to be rigid; c) no major structural element is significantly deformed; d) the chair fulfils its functions after removal of the test loads. Stability requirements are fulfilled when after testing in accordance with Table 1 the seating does not overturn.		



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Test Item	Test Method & Test Requirement	Test Result
Seat 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 2000 N at the seat loading position. With the seat force maintained, apply specified back force 700 N 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) = $2000 \times \sin \theta$ Back force F_2 (N) = $(\theta/60^\circ - 0.1666) \times 2000 \times \cos \theta$ When the back inclination θ is $< 55^\circ$ to horizontal: Seat force F_1 (N) = 2000×0.75 Back force F_2 (N) = $2000 \times 0.75 \times \cos \theta$ If the item tends to overturn, reduce F_2 (min. 410N) to prevent rearwards overturning. Repeat the operation for 10 cycles, 10s each cycle.	PASS
Seat front edge static load (EN 1728:2012, 6.5)	Load seat not being tested with 750 N. Apply the force 1600 N at a point on the seat centre line 100 mm inwards from the front edge of the structure. If the seating tends to overturn, reduce the force to a magnitude that just prevents overturning. Repeat the operation for 10 cycles, 10s each cycle.	PASS
Vertical static load on back (EN 1728:2012, 6.6)	The test is only applicable for chairs without head/neck rest and for chairs with a height of the backrest < 1000 mm above ground. Load seat not being tested with 750 N. Apply the seat load 1800 N to the seat loading point. Apply the downwards static force 900 N to the top of the back rest, on the centre line of the back. Repeat the operation for 10 cycles, 10s each cycle.	PASS
Foot rest static load test (EN 1728:2012, 6.8)	Apply the specified downward force to the seat at the seat loading point. Apply a vertical force 1600 N acting 80 mm from front edge of the load bearing structure of the foot rest at those points most likely to cause failure. For round cross section ring shaped footrests, the force shall be applied through the centre of the ring cross section. 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.	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 specified downward force to the seat at the seat loading point. Apply 1600 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 sideways static load test (EN 1728:2012, 6.10)	Apply an outward force 900N 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.	NA



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Test Item	Test Method & Test Requirement	Test Result
Arm downwards static load test (EN 1728:2012, 6.11)	Apply vertical force 900N 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.	NA
Vertical upwards static load on arm rests (EN 1728:2012, 6.13.1, 6.13.2)	Seating which may be moved when occupied This test is only applicable to seating where it is expected that it may be moved when occupied by lifting by the arm rests. Place the seat load 1200 N at the seat loading point. Apply an upwards force sufficient to lift the seating simultaneously to both arms at the balance point. Lower the seating unit so that it rests on the floor. Repeat the operation for 10 cycles, 10s each cycle.	NA
	Stacking seating This test applies only to stacking seating units where the stack is moved by lifting by the arm rests. Normally this test does not apply when the manufacturer supplies devices for moving the seating or when the information for use includes instructions for moving the stack of chairs without lifting by the arm rests. Load the chair with 1200 N at the seat loading point. Apply an upwards force sufficient to lift the seating simultaneously to both arms at the balance point. Lower the seating unit so that it rests on the floor. Repeat the operation for 10 cycles, 10s each cycle.	NA
Seat and back fatigue 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 θ is $\leq 55^\circ$ & $< 70^\circ$ to horizontal: Seat force F_3 (N) = $1000 \times \sin \theta$ Back force F_4 (N) = $(\theta/60^\circ - 0.1666) \times 1000 \times \cos \theta$ When the back inclination θ is $< 55^\circ$ to horizontal: Seat force F_3 (N) = 1000×0.75 Back force F_4 (N) = $1000 \times 0.75 \times \cos \theta$ If the item tends to overturn, reduce F_4 to prevent rearwards overturning. Repeat the operation for 200000 cycles.	PASS
Seat front edge fatigue test (EN 1728:2012, 6.18)	Apply the vertical force 800N alternately on two points each 80mm from the front edge of the seat structure and as near as possible to either side of the seat but not less than 80mm from the edges. If the item tends to overturn, reduce the force to a magnitude that just prevents overturning. Repeat the test for 100000 cycles.	PASS
Arm fatigue 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 60000 cycles.	NA



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Test Item	Test Method & Test Requirement	Test Result								
Foot rest durability test (EN 1728:2012, 6.21)	Apply the downward force to the seat at the seat loading point. Apply a vertical force 1000 N acting 80 mm from front edge of the load bearing structure of the foot rest at those points most likely to cause failure. For round cross section ring shaped footrests, the force shall be applied through the centre of ring cross section. If the seating tends to overturn, increase the load on seat to a magnitude that just prevents overturning. Repeat the test for 100000 cycles.	NA								
Leg forward static load test (EN 1728:2012, 6.15)	Apply the seat load 1800N to all seat loading positions. Apply a horizontal force 620N 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. If the item tends to overturn, reduce the force to a magnitude that just prevents overturning. Repeat the operation for 10 cycles, 10s each cycle.	PASS								
Leg sideways static load test (EN 1728:2012, 6.16)	Apply the seat load 1800N at a suitable position across the seat but not more than 150 mm from the unloaded edge of the seat. Apply a horizontal force 760N centrally to the unrestrained side of the seat, at seat level, in a direction towards the restrained feet. If the item tends to overturn, reduce the force to a magnitude that just prevents overturning. Repeat the operation for 10 cycles, 10s each cycle.	PASS								
Seat impact test (EN 1728:2012, 6.24)	Allow the seat impactor to fall freely from a height 300 mm onto the seat loading position. Apply the operation for 10 cycles. 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								
Back impact test (EN 1728:2012, 6.25)	This test is for all seating not tested in 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 330 mm (or angle 48°). Repeat the operation for 10 cycles.	PASS								
Arm impact test (EN 1728:2012, 6.26)	Strike the outside of one arm rest with the impact hammer at the position most likely to cause failure, but not less than 50 mm from the end of the arm rest. Strike the arm rest through the height 330 mm (or angle 48°) for 10 times.	NA								
Drop test (multiple seating) (EN 1728:2012, 6.27.1)	Measure the vertical force required to lift the right and left hand side of the item. Determine the drop height as a percentage of specified drop height 450 mm according to the calculation: <table><tr><td><u>Mass of one end</u></td><td><u>Percentage of Specified Drop Height</u></td></tr><tr><td>0 – 10 kg</td><td>100</td></tr><tr><td>10 – 65 kg</td><td>100 – [90 x [Mass of one end – 10]/55]</td></tr><tr><td>> 65 kg</td><td>10</td></tr></table> Lift the item at one end/side and allow it to fall freely from the drop height to strike the floor. Apply the operation for 5 times. Repeat the test on the other end of the item for 5 times.	<u>Mass of one end</u>	<u>Percentage of Specified Drop Height</u>	0 – 10 kg	100	10 – 65 kg	100 – [90 x [Mass of one end – 10]/55]	> 65 kg	10	NA
<u>Mass of one end</u>	<u>Percentage of Specified Drop Height</u>									
0 – 10 kg	100									
10 – 65 kg	100 – [90 x [Mass of one end – 10]/55]									
> 65 kg	10									
Auxiliary writing surface static load test (EN 1728:2012, 6.14)	Load the chair at the seat loading point. Apply 300 N downwards force to the point on the writing surface furthest from any support, but not less than 100 mm from any edge of the writing surface. Repeat the operation for 10 cycles, 10s each cycle.	NA								



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Test Item	Test Method & Test Requirement	Test Result
Auxiliary writing surface durability test (EN 1728:2012, 6.22)	Apply downward force at the seat loading point. Apply a downwards vertical force 150 N to the point on the writing surface furthest from any support, but not less than 100 mm from any edge of the writing surface. If the seating tends to overturn, increase the load on seat to a magnitude that just prevents overturning. Repeat the test for 20000 cycles.	NA
Information for use (EN 16139:2013, 7)		
Information for use (EN 16139:2013, 7)	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: a) information regarding the intended use (see Annex B); b) if the chair is fitted with adjusting mechanisms: instruction for operating the adjusting mechanisms; c) assembly instructions, where applicable; d) instruction for the care and maintenance of the chair; e) if the seating is fitted with castors: information on the choice of castors in relation to the floor surface; f) if the seating is fitted with adjustment mechanisms comprising an energy accumulator, an additional note is required pointing out that only instructed personnel may replace and maintain adjustment mechanisms containing energy accumulators.	NT
Additional tests (EN 16139:2013, Annex A)		
Drop test for stacking seating (EN 1728:2012, 6.27.2)	Stack one seating unit upon another and place one 10 kg loading disc (If the mass of the test stack exceeds 20 kg, reduce the additional load with bag weights until the mass of the stack is 20 kg) on the seat of the upper seating as far towards the rear of the seat as possible. Support the bottom seating unit so that one leg is lifted to the drop height 200 mm and the line joining that leg to the leg diagonally opposite is inclined 10° to the horizontal. The two remaining legs shall be maintained at the same level. Drop it on the rubber faced test floor for 10 times. Repeat the test on one front leg and one rear leg.	NA
Backward fall test (EN 1728:2012, 6.28)	Apply a rearward horizontal load to a point 50 mm below the top of the back rest in the centre of the back rest. Measure the force required to lift the front legs off the floor. If the measured force is less than 30N, push the top of the back rest rearwards until it reaches the equilibrium point. 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
Drop test from the height of a table (EN 1728:2012, 6.27.3)	This test is only applicable to seating that is designed to be placed at high level (e.g. on a table top during cleaning). Support the seating so that one leg is lifted to the drop height 600 mm and the line joining that leg to the leg diagonally opposite is inclined 10° to the horizontal. The two remaining legs shall be maintained at the same level. Drop it on to the rubber faced test floor. Repeat the test 5 times on one front leg and 5 times on one rear leg.	NA



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Remark:

1. Test severity in relation to applications:

<u>Level</u>	<u>Type of use</u>	<u>Range of application</u>
L2	Extreme use	Areas in which seating is occasionally or repeatedly subject to extremely high loads due to their specific types of use or due to improper use. Examples of end-use: night-clubs, police stations, transport terminals, sport changing rooms, prisons, barracks (non-controlled areas).

2. NA = Not applicable; NT = Not tested

Remark:

1. 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.
2. The content remark with * was updated.



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Photo Appendix



Sample as received - View 1



Sample as received - View 2



Sample as received - View 3

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End of Report