

Test Report

No.: SDHG1405006430FT

Date: May 20, 2014

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ZHUHAI SHICHANG METALS LTD.
NO.2 CHUANGYE MIDDLE RD, SHUANGLINPIAN ZONE, LIANGANG INDUSTRIAL AREA,
ZHUHAI CITY, GUANGDONG PROVINCE 519045

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description : BLOW MOLD FOLDING CHAIR (NORMAN CHAIR)
Style / Item No. : PC003X001A
Sample Receiving Date : May 08, 2014
Test Performing Date : May 08, 2014 to May 20, 2014

Test Result Summary

Test(s) Requested	Result(s)
EN 16139:2013/AC:2013 (Level 1)	PASS (see summary 1)

Summary:

1. Excluded the clause 7, information for use
2. For further details, please refer to the following page(s).

Signed for and on behalf of
SGS-CSTC Co., Ltd.



Bill Wang
Approved signatory



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TESTS AND RESULTS

Test Conducted:

EN 16139:2013/AC:2013 Furniture - Strength, durability and safety - Requirements for non-domestic seating.

General Test Condition:

The following test program was conducted in a laboratory environment maintained at 15°C to 25°C and 50%±5 RH. The sample was individually tested after conditioning in the test environment for at least 24 hours prior to conducting the test.

The complete detailed procedures may be found in the referenced specification and are only summarized herein. Unless otherwise specified, the tests are carried out in the following order on the same sample.

No. of Sample:

1 piece (Sample 1). For more sample information and pictures, please refer to the following page.

Test Severity: Level 1 (General use). For the test severity in relation to applications, please refer to Annex A.

Test	Test Description and Requirements	Test Results
4 Safety Requirements		
4.1	<p>General</p> <p>The seating shall be so designed as to minimise the risk of injury to the user.</p> <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
4.2	Shear and squeeze points (8 ~ 25 mm)	
4.2.1	<p>Shear and squeeze points when setting up and folding</p> <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>	PASS

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Test	Test Description and Requirements	Test Results
4.2.2	Shear and squeeze points under the influence of powered mechanisms 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.	Not applicable
4.2.3	Shear and squeeze points during use 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.	PASS
4.3	Stability The seating shall not overturn under the following conditions: 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 an item of seating 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.	
4.3.2	Swiveling chairs Requirements a) to e) are considered to be met if the seating complies with EN 1335-2:2009. Requirements f) are considered to be met if the seating complies with EN 1022:2005; 6.3.	Not applicable
4.3.3	Non Swiveling chairs Requirements a) to f) are considered to be met if the seating complies with EN 1022:2005.	PASS
EN 1335-2:2009, 4.3	Stability during use The chair shall not overbalance under the following conditions: a) by pressing down on the front edge of the seat surface in the most adverse position; b) by leaning out over the arm rests; c) by leaning against the back rest; d) by sitting on the front edge. Requirement a) is fulfilled if the chair does not overbalance when tested according to 7.1.1 of EN 1335-3:2009 with the forces and numbers of cycles according to Table A.1 of this standard. Requirements b) and d) are fulfilled if the chair does not overbalance when tested according to 7.1.2, 7.1.3, 7.1.4 and 7.1.5 of EN 1335-3:2009 with the forces and numbers of cycles according to Table A.1 of this standard. Requirement c) is fulfilled if the chair does not overbalance when tested according to 7.1.6 or 7.1.7 of EN 1335-3:2009 with the forces and numbers of cycles according to Table A.1 of this standard.	
EN 1335-3:2009, 7.1.1	Front edge overturning Do not position the chair with the stops against the supporting points Fix the strap to the chair, i.e. the force is applied at the point on the front edge that is furthest from the axis of rotation, and allow the mass 27kg to hang freely.	Not applicable

Test	Test Description and Requirements	Test Results
EN 1335-3:2009, 7.1.2	Forwards overturning Position the chair with two adjacent supporting points on the front against the stops. Apply by means of the stability loading device a vertical force 600N acting 60 mm from the front edge of the load bearing structure of the seat at those points most likely to result in overturning. Apply for at least 5 s a horizontal outwards force 20N from the point on the seat surface where the vertical force is applied.	Not applicable
EN 1335-3:2009, 7.1.3	Forwards overturning for chairs with footrest For chairs with footrests repeat the principle of 7.1.2 on the footrest. For round cross section ring shaped footrests, the vertical force 1 100N shall be applied through the centre of the ring cross section.	Not applicable
EN 1335-3:2009, 7.1.4	Sideways overturning for chairs without arm rests Position the chair with two adjacent supporting points on one side against the stops. Apply by means of the stability loading device a vertical force 600N acting 60 mm from the side edge of the load bearing structure of the seat at those points most likely to result in overturning. Apply for at least 5 s a horizontal sideways force 20N outwards from the point on the seat surface where the vertical force is applied.	Not applicable
EN 1335-3:2009, 7.1.5	Sideways overturning for chairs with arm rests Position the chair with two adjacent supporting points on one side against the stops. Apply by means of the stability loading device a vertical force 250N acting at a point 100 mm from the fore and aft centre line of the seat at the side where the supporting points are restrained and between 175 mm and 250 mm forward of the rear edge of the seat. Apply a vertical downward force 350N acting at points on the arm rest which is on the same side as the restrained supporting points up to a maximum 40 mm inwards from the outer edge of the upper surface of the arm rest, but not beyond the centre of the arm rest, and at the most adverse position along its length. Apply a horizontal sideways force 20N outwards from the same point for at least 5 s.	Not applicable
EN 1335-3:2009, 7.1.6	Rearwards overturning for chairs without back rest inclination Position the chair with two adjacent supporting points on the back against the stops. When an independent lumbar adjustment is fitted it shall be set in the most adverse configuration. A vertical force 600N shall be applied at point "A" and a horizontal force 192N shall be applied at point "B". If the back rest pad is pivoting around a horizontal axis above the height of the seat and is free to move, the horizontal force shall be applied on the axis. If height adjustable, the axis shall be set as close as possible to 300 mm above point "A".	Not applicable

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Test	Test Description and Requirements	Test Results
EN 1335-3:2009, 7.1.7	<p>Rearwards overturning for chairs with adjustable back rest inclination</p> <p>Do not position the chair with the supporting points against the stops. When an independent lumbar adjustment is fitted it shall be set in the most adverse configuration. Load the chair with 13 discs so that the discs are firmly settled against the back rest. If the height of the stack of discs exceeds the height of the back rest, prevent the upper discs from sliding off by the use of a light support.</p>	Not applicable
EN 1022:2005, 6	Test procedure and requirements, all seating: experimental method	
EN 1022:2005, 6.2	<p>Forwards overbalancing, all seating</p> <p>Apply a force $F_v = 600$ N vertically (for multiple sitting places to a maximum of 2 places) by means of the loading pad acting at those points 60 mm behind the front edge of the load bearing structure most likely to result in overturning.</p> <p>At each loaded position apply a force $F_H = 20$ N for at least 5 s 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
EN 1022:2005, 6.3	<p>Forwards overturning for seating with footrest</p> <p>For seating with footrests repeat the procedure in 6.2 applying the vertical and horizontal loads to the footrests.</p> <p>For footrests of tubular construction the loads shall be applied along the centre line of the tube.</p>	Not applicable
EN 1022:2005, 6.4	<p>Sideways overbalancing, all seating without arms</p> <p>Apply a force $F_v = 600$ N vertically by means of the loading pad at those points 60 mm behind the edge of the load bearing structure of the side nearest the stopped feet most likely to result in overturning.</p> <p>Apply a sideways force $F_H = 20$ N horizontally outwards for at least 5 s along a line from the point where the base of the loading pad meets the upper surface of the seat.</p>	PASS
EN 1022:2005, 6.5	<p>Sideways overbalancing, all seating with arms</p> <p>Apply a vertical force $F_1 = 350$ N by means of the loading pad at a position on the centre line of the arm up to a maximum 40 mm inwards from the outer edge of the arm structure at the most adverse position along its length.</p> <p>Apply a vertical force $F_2 = 250$ N at a point 100 mm to the side of the fore and aft centre line of the seat (Figure 6) which is nearest the stopped feet and at the same distance from the backrest as the arm loads.</p> <p>Apply a horizontal force $F_H = 20$ N outwards, and perpendicular to the line joining the stopped feet, for at least 5 s, at the upper surface of the armrest in line with the vertical arm force and on the side with stopped feet.</p>	Not applicable

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Test	Test Description and Requirements	Test Results
EN 1022:2005, 6.6	<p>Rearwards overbalancing, all seating with backs This sub-clause only applies to seating with backs extending 50 mm or more above the unloaded seat. All adjustable backs shall be set in their most upright position. Apply a vertical force $F_v = 600$ N to the seat by means of the loading pad (4.2) at the seat loading point (A) determined by the loading point template. Determine the distance (H) in millimeters between the loaded seat and the floor. For seating having a value of $H \geq 720$mm uses a force $F_H = 80$ N. For seating having a value of $H < 720$ mm calculate the force F, in newtons, required from the following formula: $F_H = 0, 2857 (1000 - H)$. Where: H is in millimeters; F is in newtons. Apply the force F horizontally for at least 5 s in a rearward direction to the back of the seating at the point (B) determined by the loading point template, or at the top edge of the back rest, whichever is the lower. When the seating has more than one sitting place, carry out the procedure on two most adverse sitting places simultaneously.</p>	<p>PASS</p> <p>Min. F= 161.4 N</p>
EN 1022:2005, 7	<p>Test procedures and requirements for seating with variable geometry: experimental method.</p>	
EN 1022:2005, 7.3	<p>Tilting chairs The test method applies to all values of $\theta \geq 10$ and values of γ between 90° and 170°. If the seating has a locking system it shall be set in the fully tilted position. Load the seat with 11 loading discs (10 kg) so that the discs are firmly settled against the back rest.</p>	Not applicable
EN 1022:2005, 7.4	<p>Rocking chairs Load the chair with 8 loading discs (10 kg) so that the discs rest against the chair back. Rock the chair forwards as far as is practicable or until the back is vertical. Allow the chair to rock rearwards freely under gravity.</p>	Not applicable
EN 1022:2005, 7.5	<p>Reclining chairs with footrest The test method applies to all values of $\theta \geq 10$ and values of γ between 90° and 170°. With the chair in the fully reclined configuration, load the back of the chair with 8 loading discs (10 kg) by means of the support device and place 3 loading discs (10 kg) onto the footrest at a distance Z from the intersection of the seat and back.</p>	Not applicable
EN 1022:2005, 7.6	<p>Footrest test In some cases the forward stability test cannot be carried out on a reclining chair because the footrest folds up. In this case, the forward stability test shall be applied with the footrest in the folded condition only. However, in those cases where the footrest does not fold as the sitter's weight is moved towards the footrest (e.g. lever operated chairs) the forward stability test shall be applied to the footrest in its fully extended position.</p>	Not applicable

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Test	Test Description and Requirements	Test Results
EN 1022:2005, 7.7	<p>Reclining chairs without footrest The test method applies to all values of $\theta \geq 10$ and values of γ between 90° and 170°. Load the back of the chair with 8 loading discs (10 kg) by means of the support device and place three loading discs onto the front of the seat of the chair at a distance X from the intersection of the seat and back.</p>	Not applicable
4.4	<p>Rolling resistance of the unloaded chair 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.</p>	Not applicable
EN 16139:2013, 5	<p>Safety, strength and durability requirements 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.</p>	
EN 1728:2012, 6.4	<p>Seat static load and back static load test Only the vertical seat static force shall be applied to items without a back rest. Apply the downward force F_v at the seat loading position. With the downward force maintained, apply the back force F_H at back loading position. Remove the back load and then the seat load. Seating with a fixed back position, and seating with reclining mechanisms that cannot be locked into a fixed position, shall be tested for the number of 10 cycles; Seating with reclining mechanisms that can be set or locked in a number of positions shall be tested for 5 cycles in the most upright position, and 5 cycles in the most adverse reclined position. The force F_v and F_H are decided by following rules: - When $\theta_{min} \geq 70^\circ$, $F_v=1600N$, $F_H=560N$; - When $55^\circ \leq \theta_{min} < 70^\circ$, $F_v = 1600N \times \sin\theta_{min}$ $F_H = (\theta/60^\circ - 0.1666) \times 560N \times \cos\theta_{min}$ - When $\theta_{min} < 55^\circ$, $F_v = 0.75 \times 1600N$ $F_H = 0.75 \times 560N \times \cos\theta_{min}$</p>	PASS

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Test	Test Description and Requirements	Test Results
EN 1728:2012, 6.5	<p>Seat front edge static load Apply the vertical force of 1300N using the seat loading pad at a point on the seat centre line 100 mm inwards from the front edge of the structure. For multiple seating units, the seat front edge static load test shall be carried out simultaneously on the same seats as used for the seat and back static load test During the test, load the seat(s) that are not being tested with the specified seat load for parts not undergoing test, applied at the seat loading position. Repeat above operation for 10 cycles.</p>	PASS
EN 1728:2012, 6.6	<p>Vertical load on back rests The test is only applicable for chairs without head/neck rest and for chairs with a height of the backrest < 1 000 mm above ground. Apply the vertical force of 1300N to the seat loading point and maintain for the duration of the test. Apply the downwards static force of 600N to the top of the back rest, on the centre line of the back. Apply the force through the seat loading pad. If it is not possible to use the seat loading pad, apply the force with the smaller seat loading pad. For multiple seating units, the downwards static force shall be applied simultaneously on the same positions as used for the seat and back static load test. During the test, load the seat(s) that are not being tested with 750N at the seat loading position. If the seating tends to overturn, reduce the downwards static force(s) on the back rest to a magnitude that just prevents overturning. Repeat above operation for 10 cycles.</p>	PASS
EN 1728:2012, 6.8	<p>Foot rest static load test Apply the downward force of 750N to the seat at the seat loading point. Apply a vertical force of 1300N by means of the local loading pad (D = 100mm) 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. Repeat above operation for 10 cycles.</p>	Not applicable
EN 1728:2012, 6.9	<p>Leg rest static load test This test is only applicable to leg rests designed to support the full weight of the user. Apply the downward force of 750N to the seat at the seat loading point. Using the seat loading pad, apply the vertical force of 1300N 100 mm in from the outer edge of the leg rest at the point most likely to cause failure. Repeat above operation for 10 cycles.</p>	Not applicable

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Test	Test Description and Requirements	Test Results
EN 1728:2012, 6.10	<p>Arm rest sideways static load test For seating with one arm rest, apply an outward force of 400N to the arm rest at the point along the arm rest most likely to cause failure, but not less than 100 mm from the end of the arm rest structure. Apply the force using the local loading pad (D = 100mm). For seating with two arm rests, apply an outward force to each arm rest of the unit simultaneously. For seating with three or more arm rests, carry out the test on one pair of adjacent arm rests. All different arm rest designs shall be tested. Repeat above operation for 10 cycles.</p>	Not applicable
EN 1728:2012, 6.11	<p>Arm rest downwards static load test For seating which only has one arm rest, or which has two arm rests where the distance between the centre of the arm rests is more than 1000 mm, apply the vertical force 750N 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. For seating with two arm rests, where the distance between the centre of the arm rests is 1 000 mm or less, apply the vertical force simultaneously to both arm rests. For seating with three or more arm rests, carry out the test on one pair of adjacent arm rests. All different arm rest designs shall be tested. Repeat above operation for 5 cycles. Loading pad: D = 200 mm or 100mm</p>	Not applicable
EN 1728:2012, 6.13.1	<p>Vertical upwards static load on arm rests - 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 with 250N at the seat loading point. Apply an upwards force simultaneously to both arms, at the balance point, sufficient to lift the seating. Lower the chair so that it rests on the floor. Repeat above operation for 10 cycles and maintains at least 10 seconds during each cycles.</p>	Not applicable
EN 1728:2012, 6.13.2	<p>Vertical upwards static load on arm rests – 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 the specified load 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.</p>	Not applicable

Test	Test Description and Requirements	Test Results
<p>EN 1728:2012, 6.17</p>	<p>Combined seat and back durability test Only the vertical seat durability force shall be applied to items without a back rest. Apply the downward force Fv at the seat loading position. With the downward force maintained, apply the back force FH at back loading position. Remove the back load and then the seat load. Seating with a fixed back position, and seating with reclining mechanisms that cannot be locked into a fixed position, shall be tested for the number of 100 000 cycles; Seating with reclining mechanisms that can be set or locked in a number of positions shall be tested for 50 000 cycles in the most upright position, and 50 000 cycles in the most adverse reclined position. The force Fv and FH are decided by following rules: - When $\varnothing_{\min} \geq 70^\circ$, $F_v = 1000N$, $F_H = 300N$; - When $55^\circ \leq \varnothing_{\min} < 70^\circ$, $F_v = 1000N \times \sin \varnothing_{\min}$ $F_H = (\varnothing / 60^\circ - 0.1666) \times 300N \times \cos \varnothing_{\min}$ - When $\varnothing_{\min} < 55^\circ$, $F_v = 0.75 \times 1000N$ $F_H = 0.75 \times 300N \times \cos \varnothing_{\min}$</p>	<p>PASS</p>
<p>EN 1728:2012, 6.18</p>	<p>Seat front edge durability test Apply the vertical seat durability force $F_v = 800N$ using the smaller seat loading pad ($D=100mm$) alternately on two points each 100 mm from the front edge of the seat structure and as near as possible to either side of the seat but not less than 100 mm from the edges. One cycle is one application of the specified force to each load position. For seating where it is not possible to apply the force at two points, the force shall be applied to a single position on the longitudinal axes at a point 100 mm from the front edge of the seat structure. One cycle is two applications of the specified force. Repeat above operation for 50 000 cycles.</p>	<p>PASS</p>
<p>EN 1728:2012, 6.20</p>	<p>Arm rest durability test The test load of 400 N shall be applied simultaneously on two points for 30 000 cycles, 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. The force shall be applied at an angle of $(10 \pm 1)^\circ$ to the vertical, and to both arm rests simultaneously for seating with only one seating position and to one arm rest only for seating with multiple seating positions.</p>	<p>Not applicable</p>

Test	Test Description and Requirements	Test Results
EN 1728:2012, 6.21	Foot rest durability test Apply a vertical force of 1 000N by means of the local loading pad 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. Repeat above operation for 50 000 cycles.	Not applicable
EN 1728:2012, 6.15	Leg forward static load test For seating with a single seat, apply the seat load $F_v = 1000N$ at the seat loading position. Apply the horizontal force $F_H = 500N$ centrally to the rear of the seat, at seat level, in a forward direction, by means of the local loading pad ($D=100mm$). For seating with multiple seating positions, apply the horizontal force of the most adverse seat position. For seating with only three legs, one foot on the fore and aft centre line of the item of seating and one other foot shall be restrained by stops. Repeat above operation for 10 times.	PASS
EN 1728:2012, 6.16	Leg sideways static load test Apply the seat load $F_v = 1000N$ at any position not more than 150mm from the unload edge of the seat. Apply a horizontal force $F_H = 400N$ centrally to the unrestrained side of the seat, at seat level, in a direction towards the restrained feet. For seating with only three legs, one foot on the fore and aft centre line of the item of seating and one other foot shall be restrained by stops. Repeat above operation for 10 times.	PASS
EN 1728:2012, 6.24	Seat Impact Test Place one layer of 25 mm thick foam on the seat. Determine the height of fall from the position of the impactor when it is resting on the surface of that layer of foam. Place a second layer of 25 mm thick foam between the striking surface and the chair seat for the test. Allow the seat impactor to fall freely from the height of 240mm onto the seat loading 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. For multiple seating units, apply the test to one end seat and an intermediate seating position. Repeat above operation for 10 times.	PASS
EN 1728:2012, 6.25	Back Impact Test Allow the impact hammer (6.5 kg) to fall freely from the height $H = 210mm$ or an angle $\theta = 38^\circ$ onto the center of the top outside of the chair back for 10 times. If the item has no back, strike the centre of the seat rear edge. If a stool or bench has no easily determined rear edge, apply the test in the direction most likely to cause failure.	PASS
EN 1728:2012, 6.26	Arm rest impact test Allow the impact hammer (6.5 kg) to fall freely from the height $H = 210mm$ or an angle $\theta = 38^\circ$ onto the position most likely to cause failure, but not less than 50 mm from the end of the arm rest for 10 times.	Not applicable

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Test	Test Description and Requirements	Test Results
EN 1728:2012, 6.27.1	Drop test for multiple seat units Lift the item at one end/side and allow it to fall freely from the specified height so that the feet or castors strike the floor for 5 times. Repeat the test on the other end of the item.	Not applicable
EN 1728:2012, 6.14	Vertical static load on auxiliary writing surfaces Apply the downwards force of 300N by means of the local loading pad 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 above operation for 10 times.	Not applicable
EN 1728:2012, 6.22	Auxiliary writing surfaces durability test Apply a downwards vertical force of 150N at the same position as specified in 6.14 using the local loading pad for 10 000 cycles.	Not applicable
EN 16139:2013, 7	Information for use 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 (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.	Not requested
Additional Test (Recommended)		
EN 1728:2012, 6.27.2	Drop test for stacking seating Using two chairs, stack one seating unit upon another and place one 10 kg loading disc on the seat of the upper seating unit located as far towards the rear of the seat as possible. If the mass of the test stack exceeds 20 kg, replace the disc with bag weights (or similar) and reduce the additional load until the mass of the stack is 20 kg. The weight shall be held in position by straps round the seat of the upper seating unit or both seating units if there is insufficient space for the straps between the two seating units. Support the bottom seating unit so that one leg is lifted to 150 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. The test shall be carried out on one front leg and one rear leg. The test may be carried out by lifting the seating by means of three cords, which are adjusted in length so that the 10° angle is obtained.	Not applicable

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Test	Test Description and Requirements	Test Results
EN 1728:2012, 6.28	<p>Backward fall test 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 for 5 times.</p>	PASS
EN 1728:2012, 6.27.3	<p>Drop test from the height of a table 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 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 for 10 times (5 times on one front leg and 5 times on one rear leg). The test may be carried out by lifting the seating by means of three cords, which are adjusted in length so that the 10° angle is obtained.</p>	Not applicable

Annex A: Test severity in relation to applications

Test Severity	Type of Use	Application
1	General use	Areas in which seating is usually intended for mixed use (short-time and for a period of several hours, light to heavy load). <u>Examples of end-use:</u> all kind of applications in office buildings, showrooms, public halls, function rooms, cafés, restaurants, canteens, banks, bars.
2	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. <u>Examples of end-use:</u> night-clubs, police stations, transport terminals, sport changing rooms, prisons, barracks (non-controlled areas).

Remark:

1. /

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SAMPLE INFORMATION AND PICTURES

Weight: 5.05 kg
 Overall Dimensions: 577 mm L x 475 mm W x 850 mm H
 Other Dimensions: /

Sample as Received



View 1



View 2



View 3



View 4

End of Report

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