


Prüfbericht-Nr.: <i>Test report no.:</i>	CN22CDD1 001	Auftrags-Nr.: <i>Order no.:</i>	170319291 10	Seite 1 von 9 Page 1 of 9
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2022.10.11	
Auftraggeber: <i>Client:</i>	USI Furniture Limited 19/F, No.3 Lockhart Road, Wanchai, HONG KONG.			
Prüfgegenstand: <i>Test item:</i>	Office chair			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	UN2202-2H			
Auftrags-Inhalt: <i>Order content:</i>	Mechanical safety test according to client's requirement			
Prüfgrundlage: <i>Test specification:</i>	BS 5459-2:2000+A2:2008 (Excluding clause 5) EN 1335-2:2018 (Excluding clause 6)			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2022.10.11			
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003350472-001			
Prüfzeitraum: <i>Testing period:</i>	2022.10.11 – 2023.01.10			
Ort der Prüfung: <i>Place of testing:</i>	Unit 201, NO.7 Caipin Road, GuangZhou, China			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Guangdong) Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	<u>X Tom He</u>	genehmigt von: <i>authorized by:</i>	<u>X Kingsley He</u>	
Datum: <i>Date:</i> 2023.02.21	Signed by: Tom He	Ausstellungsdatum: <i>Issue date:</i> 2023.02.21	Signed by: Kingsley He	
Stellung / Position:	Tom He / Test Engineer	Stellung / Position:	Kingsley He / Reviewer	
Sonstiges / Other:	Per client's requirement, BS5459 standard according to the maximum bearing 200 kg for testing, EN1335-2 according to the maximum bearing 110 kg for testing			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
<p>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>				

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Anmerkungen
Remarks

1	<p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>
2	<p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben.</p> <p><i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged.</i></p>
3	<p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>
4	<p>Die Entscheidungsregel für Konformitätserklärungen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird.</p> <p><i>The decision rule for statements of conformity in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report.</i></p>

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Produktbeschreibung
Product description

1	Produktdetails <i>Product details</i>	Office chair
2	Maße / Gewicht <i>Dimensions / Weight</i>	H x W x D: (1320 ~ 1440) x 720 x 720 ~ 745 mm Weight: 28.24 kg
3	Bedienelemente <i>Operating elements</i>	Gas lift, tilting mechanism, adjustable seat surface / headrest / backrest / armrests and castors
4	Ausstattung / Zubehör <i>Equipment / Accessories</i>	N/A
5	Verwendete Materialien <i>Used materials</i>	Mesh, foam, aluminum and PA plastic
6	Sonstiges <i>Other</i>	Test sample(s), as well sample information, description, product details and intended usage was provided by customer.
7	Prüfmusterbereitstellung <i>Test sample obtaining</i>	<input checked="" type="checkbox"/> Sending by customer <input type="checkbox"/> Sampling by TÜV Rheinland Group <input type="checkbox"/> others:

Pic. 1: Front view



Pic. 2: Side view



Pic. 3: Back view



Pic. 4: Bottom view



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Absatz Clause	Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse – Bemerkungen/ Measuring results - Remarks	Ergebnis Result

BS 5459-2:2000+A2:2008			
Specification for performance requirements and tests for office furniture — Part 2: Office pedestal seating for use by persons weighing up to 150 kg and for use up to 24 hours a day, including type-approval tests for individual components			
1	<p>Scope</p> <p>This part of BS 5459 specifies performance requirements and test methods for the structural safety and stability of office pedestal seating when used by persons weighing up to 150 kg, or when used for up to 24 hours a day, including chairs for use with tables and desks higher than those specified in BS EN 527-1.</p> <p>This Part of BS 5459 also specifies requirements and test methods for type approval of bases, columns, seat actions, back stems and locking devices.</p> <p>NOTE 1 BS EN 1335-2 and BS EN 1335-3 contain requirements and test methods for office pedestal seating which is intended for use for up to 8 hours a day by persons weighing up to 110 kg.</p> <p>This standard does not apply to office visitors' chairs.</p> <p>NOTE 2 Office visitors' chairs are chairs used in the office environment which are not classed as office work chairs and which are used for long or short meetings or consultations, as well as for reading, writing, listening and waiting.</p>		
2	Normative references		
3	Terms and definitions		
4	Requirements		
4.1	Durability		Pass
4.2	Component durability		Pass
4.3	Stability		Pass
4.4	Safety		Pass
4.5	Type approval of bases, columns, seat actions, back stems and locking devices		/
4.5.1	General		N/A
4.5.2	Seat actions		N/A
4.5.3	Columns, bases, back stems and locking devices		N/A
4.5.4	Additional requirements for bases with structural components incorporating plastics		N/A
4.6	Criteria for failure and safe failure		/
5	Marking		
5.1	Complete chairs	Not requested by client	N/T
5.2	Columns, bases, seat actions, back stems and locking devices	Not requested by client	N/T
Annex A	Test methods		
A.1	General		
A.2	Principle		
A.3	Apparatus		
A.4	Determination of seat and back loading points		/
A.5	Durability and safety tests		
A.5.1	Fore-and-aft safety		Pass
A.5.2	Seat impact		Pass
A.5.3	Back impact		Pass

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Absatz Clause	Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse – Bemerkungen/ Measuring results - Remarks	Ergebnis Result
A.5.4	Drop		Pass
A.5.5	Side-to-side safety		Pass
A.6	Stability test		
A.6.1	General		/
A.6.2	Forward and sideways overturning		/
A.6.2.1	Forward overturning for all chairs, and sideways overturning for chairs without arms		Pass
A.6.2.2	Sideways overturning for armchairs		Pass
A.6.3	Rearward overturning (all chairs)		/
A.6.3.1	Rearward overturning		Pass
A.6.3.2	Accidental rearward overturning		Pass
A.6.4	Rearward overturning of tilting and reclining chairs		Pass
A.7	Durability of components		/
A.7.1	General		Pass
A.7.2	Arm sideways static load		Pass
A.7.3	Arm downward static load		Pass
A.7.4	Arm impact		Pass
A.7.5	Chair swiveling		Pass
A.7.6	Seat height adjustment		Pass
A.7.7	Footrest fatigue		N/A
A.7.8	Durability of controls		Pass
A.7.9	Locking device fatigue		Pass
A.8	Type-approval tests for columns, bases, actions, back stems and locking devices		/

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Absatz Clause	Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse – Bemerkungen/ Measuring results - Remarks	Ergebnis Result
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/	Table A.1 — Summary of tests		
Clause no.	Test description	Test parameters	
A.5.1	Fore-and-aft safety	Seat load V_1 : for chairs with full back inclination, θ , of 75° or less for other chairs Back load H_1 : for chairs with full back inclination, θ , of 75° or less for other chairs Load applied to front edge V_2 Maximum number of cycles	1 500 N $\times \sin \theta$ 1 400 N 1 500 N $\times \cos \theta$ 400 N 1 400 N 500 000
A.5.2	Seat impact	Drop height	350 mm
A.5.3	Back impact	Drop height Angle	330 mm 48°
A.5.4	Drop	Drop height: for leg length < 200 mm for leg length \geq 200 mm	250 mm 450 mm
A.5.5	Side-to-side safety	Downward vertical load Maximum number of cycles	1 200 N 250 000
A.6.2.1	Forward overturning for all chairs, and sideways overturning for chairs without arms	Downward vertical force Horizontal force	600 N 20 N
A.6.2.2	Sideways overturning for armchairs	Downward vertical force on seat Downward vertical force on arm Horizontal force	250 N 350 N 20 N
A.6.3.1	Rearward overturning	Downward vertical force on seat Overturning force F : for chairs with $h \geq$ 720 mm for chairs with $h <$ 720 mm	600 N 80 N 285.7 [1-($h/1\ 000$)] N
A.6.3.2	Accidental rearward overturning	See A.6.3.2	
A.6.4	Rearward overturning of tilting and reclining chairs	13 discs	
A.7.2	Arm sideways static load	Outward horizontal force	600 N
A.7.3	Arm downward static load	Downward vertical force	1 200 N
A.7.4	Arm impact	Angle	48°
A.7.5	Chair swivelling	Downward vertical force Number of cycles	1 200 N 100 000
A.7.6	Seat height adjustment	Downward vertical force Number of cycles	1 200 N 10 000
Table A.1 — Summary of tests (continued)			
Clause no.	Test description	Test parameters	
A.7.7	Footrest fatigue	Downward vertical force Number of cycles	1 200 N 200 000
A.7.8	Durability of controls	Force	100 N
A.7.9	Locking device fatigue	Back load H_1 Number of cycles	(see A.5.1) 500 000
A.8	Type approval of columns, bases, actions, back stems and locking devices	See Tables A.3 to A.7.	

EN 1335-2:2018 Office furniture – Office work chair – Part 2: Safety requirements

4	Safety requirements		
4.1	General		Pass
4.2	Shear and squeeze points		/
4.2.1	Shear and squeeze points under influence of powered mechanisms		Pass
4.2.2	Shear and squeeze points during use		Pass
4.3	Sequence of testing		/
4.4	Stability tests and requirements	Refer to below result(s)	/

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	<p>When tested according to Table 1, the seating shall not overturn.</p> <p style="text-align: center;">Table 1 — Stability tests and parameters</p> <table border="1" data-bbox="285 504 879 1093"> <thead> <tr> <th>Tests</th> <th>Reference</th> <th>Loads and cycles</th> <th>Test parameters</th> </tr> </thead> <tbody> <tr> <td>1. Corner stability</td> <td>EN 1022:2018, 7.3.3</td> <td>Force F1, N Cycle</td> <td>300 1</td> </tr> <tr> <td>2. Forward overturning</td> <td>EN 1022:2018, 7.3.1</td> <td>Force F1, N Force F2, N Cycle</td> <td>600 20 1</td> </tr> <tr> <td>3. Forward overturning for chairs with footrests</td> <td>EN 1022:2018, 7.3.2</td> <td>Force F1, N Force F2, N Cycle</td> <td>1100 20 1</td> </tr> <tr> <td>4. Sideways overturning for chairs without arm rests</td> <td>EN 1022:2018, 7.3.4</td> <td>Force F1, N Force F2, N Cycle</td> <td>600 20 1</td> </tr> <tr> <td>5. Sideways overturning for chairs with arm rests</td> <td>EN 1022:2018, 7.3.5.1 and 7.3.5.2</td> <td>Force F1, N Force F2, N Force F3, N Cycle</td> <td>250 350 20 1</td> </tr> <tr> <td>6. Rearwards overturning for chairs without back rest inclination and for chairs with adjustable backrest inclination that can be locked</td> <td>EN 1022:2018, 7.3.6</td> <td>Force F1, N Force F2, N Cycle</td> <td>600 0,2857*(1000-H^a) 1</td> </tr> <tr> <td>7. Rearwards overturning for chairs with back rest inclination</td> <td>EN 1022:2018, 7.4</td> <td>Number of Discs Cycle</td> <td>13 1</td> </tr> </tbody> </table> <p>^a H = height of the loaded seat above the floor in millimetres.</p>	Tests	Reference	Loads and cycles	Test parameters	1. Corner stability	EN 1022:2018, 7.3.3	Force F1, N Cycle	300 1	2. Forward overturning	EN 1022:2018, 7.3.1	Force F1, N Force F2, N Cycle	600 20 1	3. Forward overturning for chairs with footrests	EN 1022:2018, 7.3.2	Force F1, N Force F2, N Cycle	1100 20 1	4. Sideways overturning for chairs without arm rests	EN 1022:2018, 7.3.4	Force F1, N Force F2, N Cycle	600 20 1	5. Sideways overturning for chairs with arm rests	EN 1022:2018, 7.3.5.1 and 7.3.5.2	Force F1, N Force F2, N Force F3, N Cycle	250 350 20 1	6. Rearwards overturning for chairs without back rest inclination and for chairs with adjustable backrest inclination that can be locked	EN 1022:2018, 7.3.6	Force F1, N Force F2, N Cycle	600 0,2857*(1000-H ^a) 1	7. Rearwards overturning for chairs with back rest inclination	EN 1022:2018, 7.4	Number of Discs Cycle	13 1		
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4.5	Structural safety requirements The structural safety requirements are met when the requirements according to 5.2 are fulfilled.	Refer to clause 5.1 & 5.2	/																																
5	Strength and durability																																		
5.1	General	Refer to below result(s)	/																																

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	<p style="text-align: center;">Table 2 – Test sequence and parameters</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Tests</th> <th style="width: 25%;">Reference</th> <th style="width: 40%;">Loads and cycles</th> <th style="width: 10%;">Test parameters</th> </tr> </thead> <tbody> <tr> <td>1. Combined seat and back static load test</td> <td>EN 1728:2012, 7.3</td> <td>Seat force F1, N Back rest force F2, N Cycles</td> <td>1600 560 10</td> </tr> <tr> <td>2. Seat front edge static load test</td> <td>EN 1728:2012, 7.4</td> <td>Force, N Cycles</td> <td>1600 10</td> </tr> <tr> <td>3. Foot rest static load test</td> <td>EN 1728:2012, 7.8</td> <td>Force, N Cycles</td> <td>1300 10</td> </tr> <tr> <td rowspan="5">4. Seat and back durability</td> <td rowspan="5">EN 1728:2012, 7.9</td> <td>Step 1: Force, N, at point A Cycles</td> <td>1 500 120 000</td> </tr> <tr> <td>Step 2: Force, N, at point C Force, N, at point B Cycles</td> <td>1 200 320 80 000</td> </tr> <tr> <td>Step 3: Force, N, at point J Force, N, at point E Cycles</td> <td>1 200 320 20 000</td> </tr> <tr> <td>Step 4: Force, N, at point F Force, N, at point H Cycles</td> <td>1 200 320 20 000</td> </tr> <tr> <td>Step 5 ^a: Force, N, at point D and G Cycles</td> <td>1 100 20 000</td> </tr> <tr> <td>5. Armrests durability</td> <td>EN 1728:2012, 7.10</td> <td>Force, N Cycles</td> <td>400 60 000</td> </tr> <tr> <td>6.1 Armrest downward static load test – central ^b</td> <td rowspan="2">EN 1728:2012, 7.5</td> <td>Force, N Cycles</td> <td>750 5</td> </tr> <tr> <td>6.2 Armrest downward static load test – central ^c</td> <td>Force, N Cycles</td> <td>900 5</td> </tr> </tbody> </table> <p>^a In derogation to EN 1728:2012, 7.2.5 and 7.2.8, the loading point D shall be 150 mm to the right of point A and the loading point G shall be 150 mm to the left of point A. ^b This test shall be carried out before the stability tests. ^c This test shall be carried out after the stability tests.</p>	Tests	Reference	Loads and cycles	Test parameters	1. Combined seat and back static load test	EN 1728:2012, 7.3	Seat force F1, N Back rest force F2, N Cycles	1600 560 10	2. Seat front edge static load test	EN 1728:2012, 7.4	Force, N Cycles	1600 10	3. Foot rest static load test	EN 1728:2012, 7.8	Force, N Cycles	1300 10	4. Seat and back durability	EN 1728:2012, 7.9	Step 1: Force, N, at point A Cycles	1 500 120 000	Step 2: Force, N, at point C Force, N, at point B Cycles	1 200 320 80 000	Step 3: Force, N, at point J Force, N, at point E Cycles	1 200 320 20 000	Step 4: Force, N, at point F Force, N, at point H Cycles	1 200 320 20 000	Step 5 ^a : Force, N, at point D and G Cycles	1 100 20 000	5. Armrests durability	EN 1728:2012, 7.10	Force, N Cycles	400 60 000	6.1 Armrest downward static load test – central ^b	EN 1728:2012, 7.5	Force, N Cycles	750 5	6.2 Armrest downward static load test – central ^c	Force, N Cycles	900 5		
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/	Step 3: Force at point J & point E		Pass																																							
/	Step 4: Force at point F & point H		Pass																																							
/	Step 5: Force at point D and G		Pass																																							
/	5. Armrests durability		Pass																																							
/	6.1 Armrest downward static load test – central (before the stability tests)		Pass																																							
/	6.2 Armrest downward static load test – central (after the stability tests)		Pass																																							
5..2	<p>Requirements The strength and durability requirements are fulfilled when, after testing in accordance with Table 2:</p> <p>a) there are no fractures of any member, joint or component; b) there is no loosening of joints intended to be rigid; and c) the chair fulfils its functions after removal of the test loads.</p>	Refer to above result(s) of clause 5.1	/																																							
5.3	Rolling resistance test and requirements		Pass																																							

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Absatz Clause	Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse – Bemerkungen/ Measuring results - Remarks	Ergebnis Result																								
	<p>The rolling resistance test shall be carried out after the stability (according to Table 1) and after the strength and durability tests (according to Table 2). The unloaded chair shall be tested for rolling resistance according to EN 1728:2012, 6.30 and shall fulfil the following requirements:</p> <p>a) the castors shall be of identical construction; b) the rolling resistance shall be ≥ 12 N.</p>																										
6	<p>Information for use Information for use shall be available in the language of the country in which the product will be available to the end user. It shall contain at least the following details:</p> <p>a) information regarding the intended use; b) information regarding possible adjustments; c) instruction for operating the adjusting mechanisms; d) instruction for the care and maintenance of the chair; e) information for chairs with seat height adjustments with energy accumulators that only trained personnel may replace or repair seat height adjustment components with energy accumulators; f) information on the choice of castors in relation to the floor surface.</p>	Not requested by client	N/T																								
7	Test Report																										
/	<p>Annex A (informative) Loads, masses and cycles for functional tests – Suggested loads, masses and cycles Tests included in Table A.1 are not safety tests but may be useful for testing functions of the chair. If the functional tests listed in Table A.1 of Annex A (informative) are carried out, they can be carried out on a separated sample. The suggested loads, masses and cycles in this informative Annex are based upon use for 8 h a day by persons weighing up to 110 kg.</p> <p style="text-align: center;">Table A.1 – Loads, masses and cycles for functional tests</p> <table border="1" data-bbox="288 1532 911 1827"> <thead> <tr> <th>Tests</th> <th>Reference</th> <th>Loads and cycles</th> <th>Test parameters</th> </tr> </thead> <tbody> <tr> <td>1. Arm rest downward static load test - front</td> <td>EN 1728:2012, 7.6</td> <td>Force, N Cycles</td> <td>450 5</td> </tr> <tr> <td>2. Arm rest sideways static load test</td> <td>EN 1728:2012, 7.7</td> <td>Force, N Cycles</td> <td>400 10</td> </tr> <tr> <td>3. Swivel test</td> <td>EN 1728:2012, 7.11</td> <td>Masse M₁, kg Masse M₂, kg Cycles</td> <td>60 35 120 000</td> </tr> <tr> <td>4. Foot rest durability</td> <td>EN 1728:2012, 7.12</td> <td>Force, N Cycles</td> <td>900 50 000</td> </tr> <tr> <td>5. Castor and chair base durability</td> <td>EN 1728:2012, 7.13</td> <td>Masse M₁, kg Cycles</td> <td>110 36 000</td> </tr> </tbody> </table>	Tests	Reference	Loads and cycles	Test parameters	1. Arm rest downward static load test - front	EN 1728:2012, 7.6	Force, N Cycles	450 5	2. Arm rest sideways static load test	EN 1728:2012, 7.7	Force, N Cycles	400 10	3. Swivel test	EN 1728:2012, 7.11	Masse M ₁ , kg Masse M ₂ , kg Cycles	60 35 120 000	4. Foot rest durability	EN 1728:2012, 7.12	Force, N Cycles	900 50 000	5. Castor and chair base durability	EN 1728:2012, 7.13	Masse M ₁ , kg Cycles	110 36 000	Refer to below result(s)	/
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