

Prüfbericht-Nr.: <i>Test report no.:</i>	CN23PXW4 001	Auftrags-Nr.: <i>Order no.:</i>	244565806 10	Seite 1 von 6 Page 1 of 6
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	/	Auftragsdatum: <i>Order date:</i>	2023.12.15	
Auftraggeber: <i>Client:</i>	HINOMI PTE. LTD. 100D Pasir Panjang Rd, #01-01, Singapore			
Prüfgegenstand: <i>Test item:</i>	OFFICE CHAIR			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	Q1			
Auftrags-Inhalt: <i>Order content:</i>	Partial Mechanical Safety tests			
Prüfgrundlage: <i>Test specification:</i>	BIFMA X5.1-2017 (R2022) clause 5, 6, 7, 11, 12 & 13 General-Purpose Office Chairs – Tests			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2023.12.15			
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003627320-001			
Prüfzeitraum: <i>Testing period:</i>	2023.12.15 – 2023.12.28			
Ort der Prüfung: <i>Place of testing:</i>	Rm.103, Bld.17, No.2255 Yueluo Rd. Shanghai			
Prüflaboratorium: <i>Testing laboratory:</i>	TUV Rheinland (Shanghai) Co., Ltd			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>		genehmigt von: <i>authorized by:</i>		
Datum: <i>Date:</i>	2023.12.28	Ausstellungsdatum: <i>Issue date:</i>	2023.12.28	
Stellung / Position:	Min Wu / PE	Stellung / Position:	Sean Yuan / Reviewer	
Sonstiges / <i>Other:</i>				
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 basierend auf numerischen Messergebnissen 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. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, 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. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</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: 1140/1230/1365 x 695/775 x 715 mm, Weight: 17.99 kg
3	Bedienelemente <i>Operating elements</i>	/
4	Ausstattung / Zubehör <i>Equipment / Accessories</i>	/
5	Verwendete Materialien <i>Used materials</i>	Seat height(unload): 450/540
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:

Front View



Side View



Back View



Bottom View



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

ANSI/BIFMA X5.1-2017(R2022) - General-Purpose Office Chairs – Tests			
5	<p>Backrest Strength Test - Static - Type I and II</p> <p>Function load: No loss of serviceability when 667 N (150 lbs.) is applied for 1 min. Applied 70° to the back at 16 in. above the seat.</p> <p>Proof load: No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1001N (225 lbs.) is applied for 1 min. Applied 70° to the back at 16 in. above the seat.</p>		Passed
6	<p>Backrest Strength Test - Static - Type III</p> <p>Function load: No loss of serviceability when 667 N (150 lbs.) is applied for 1 min. Applied 90° to the back at 16 in. above the seat.</p> <p>Proof load: No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1001 N (225 lbs.) is applied for 1 min. Applied 90° to the back at 16 in. above the seat.</p>		Passed
7	<p>Drop Test – Dynamic</p> <p>Function load: No loss of serviceability when 102kg (225 lbs.) weight free falls from 6 in height to the centre of the seat.</p> <p>Proof load: No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 136kg (300 lbs.) weight free falls from 6 in height to the centre of the seat.</p>		Passed
11	Stability Tests		/
11.3	Rear Stability		/
11.3.1	<p>Rear Stability Test for Type III Chairs</p> <p>Place a support fixture made of a 1.5 mm ±0.4 mm (0.060 in. ± 0.015 in.) thick polypropylene, 356 mm (14 in.) wide and 711 mm (28 in.) tall against the chair back so that it approximates the contour of the back. Load the chair with 6 disks (10 kg each). Place the first disk on the seat so it touches the support fixture. As each disk is added to the stack slide it along the lower disk until it contacts the support fixture. Apply a horizontal force to the highest disk. The location of the force application is 6</p>		Passed

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Absatz Clause	Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse – Bemerkungen / Measuring results - Remarks	Ergebnis Result
	<p>mm (0.25 in.) from the top of the disk. For chairs with seat height (as measured at the front of the bottom of the lowest disk when all disks are in the chair) less than 710 mm (28.0 in.), calculate the force as follows:</p> <ul style="list-style-type: none"> • $F = 0.1964 (1195 - H)$ Newton. H is the seat height in mm. • $[F = 1.1 (47 - H)$ pounds force.]. H is the seat height in inches. <p>For chairs with seat height equal to or greater than 710 mm (28.0 in.), a fixed force of 93 N (20.9 lbf.) shall be applied.</p> <p>The chair shall not tip over.</p>		
11.3.2	<p>Rear Stability Test for Type I and II Chairs</p> <p>Place a support fixture made of a 1.5 mm ± 0.4 mm (0.060 in. ± 0.015 in.) thick polypropylene, 356 mm (14 in.) wide and 711 mm (28 in.) tall against the chair back so that it approximates the contour of the back. Load the chair with 13 disks. Place the first disk on the seat so it touches the support fixture. As each disk is added to the stack slide it along the lower disk until it contacts the support fixture. If the chair does not tip over and the tilt mechanism does not tilt to its most rearward position (i.e., at its tilt stop) when the disks are placed in the chair, the chair shall also be tested according to 12.3.1 with the chair in the unlocked position.</p> <p>The chair shall not tip over.</p>		Passed
11.4	<p>Front Stability</p> <p>Test Procedure - Alternative A (This alternative may only be used on chairs that do not have a seat surface that will support the stability loading fixture (i.e., mesh, web or strap seat support surfaces)) Apply a vertical load of 600 N (135 lbf.), through a 200 mm (7.87 in.) diameter disk, the centre of which is 60 mm (2.4 in.) from the front centre edge of the load-bearing surface of the seat. Apply a horizontal force of 20 N (4.5 lbf.) at the same level of the plane of the top of the seat. The force shall be coincident with the side-to-side centreline of the seat.</p> <p>-Test Procedure - Alternative B Apply a vertical load of 600 N (135 lbf.), by means of the front stability loading fixture at a point 60 mm (2.4 in.) from the front centre edge of the load-bearing surface of the chair. Apply a horizontal force of 20 N (4.5 lbf.) at the same level of the plane of the top of the seat. The force shall be coincident with the side-to-side centreline of the seat. The chair shall not tip over as the result of the force application.</p>		Passed

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Absatz <i>Clause</i>	Anforderungen - Prüfungen / <i>Requirements - Tests</i>	Messergebnisse – Bemerkungen / <i>Measuring results - Remarks</i>	Ergebnis <i>Result</i>
12	<p>Arm Strength Test - Vertical – Static</p> <p>Function load: No structural breakage or loss of serviceability when 750 N (169 lb) for 1 min. Is applied. The vertical load is uniformly applied through a 5 In. area at the apparent weakest point.</p> <p>Proof load: No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 1125(253 lb) N for 15 seconds is applied. The vertical load is uniformly applied through a 5 in. area at the apparent weakest point.</p>		Passed
13	<p>Arm Strength Test - Horizontal – Static</p> <p>Function load: No loss of serviceability when 445N (100 lbs.) for 1 min. is applied horizontally outward to the armrest at the most forward point of the armrest.</p> <p>Proof load: No sudden and major change in the structural integrity (loss of serviceability is acceptable) when 667N (150 lbs.) for 15 seconds is applied horizontally outward to the armrest at the most forward point of the armrest.</p>		Passed

*** End of test report ***