

Prüfbericht-Nr.: Test report no.:	CN25APVK 001	Auftrags-Nr.: Order no.:	326107946	Seite 1 von 9 Page 1 of 9
Kunden-Referenz-Nr.: Client reference no.:	/	Auftragsdatum: Order date:	2025-05-07	
Auftraggeber: Client:	HINOMI PTE. LTD. 12 kallang ave, #03-19 Aperia, singapore 339511			
Prüfgegenstand: Test item:	HINOMI H2 Pro Ergonomic Chair			
Bezeichnung / Typ-Nr.: Identification / Type no.:	Model:H2 Pro			
Auftrags-Inhalt: Order content:	Mechanical Test acc. client's request			
Prüfgrundlage: Test specification:	BIFMA X5.1-2017 (R2022)			
Wareneingangsdatum: Date of sample receipt:	2025-05-07			
Prüfmuster-Nr.: Test sample no.:	A003981756-001 A003982779-001~005			
Prüfzeitraum: Testing period:	2025-05-07 – 2025-06-06			
Ort der Prüfung: Place of testing:	TUV Rheinland (Suzhou) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (SuZhou) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
erstellt von: created by:	genehmigt von: authorized by:			
Datum: Date:	2025-06-06	Ausstellungsdatum: Issue date:	2025-06-06	
Stellung / Position:	Lisa Zhu/PE	Stellung / Position:	Kwame Wang / Authorizer	
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* 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				
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>				

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Anmerkungen
Remarks

1	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. <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>
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3	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. <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>
4	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. <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>

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Produktbeschreibung
Product description

1	Produktdetails Product details	HINOMI H2 Pro Ergonomic Chair
2	Maße / Gewicht Dimensions / Weight	H × W × D: 1105~1390 × 730 × 710~760 mm, Weight: 24.19 kg
3	Bedienelemente Operating elements	/
4	Ausstattung / Zubehör Equipment / Accessories	/
5	Verwendete Materialien Used materials	/
6	Sonstiges Other	Test sample(s), as well sample information, description, product details and intended usage was provided by customer.
7	Prüfmusterbereitstellung: Test sample obtaining	☒ Sending by customer ☐ Sampling by TÜV Rheinland Group ☐ others: Test was conducted in factory

Front view



Side view



Back view



Bottom view



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BIFMA X5.1-2017 (R2022) - General-Purpose Office Chairs – Tests

1	Scope		
2	Definitions		
3	General		
4	Types of Chairs	Type I & Type III	/
5	Backrest Strength Test - Static - Type I and II 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. 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.		Pass
6	Backrest Strength Test - Static - Type III 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. 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.		Pass
7	Drop Test – Dynamic Function load: No loss of serviceability when 102kg (225 lbs.) weight free falls from 6 in height to the centre of the seat. 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.		Pass
8	Swivel Test – Cyclic No loss of serviceability after 60,000 cycles of rotation (360°) under a 122 kg (270 lb.) load on the seat at its max height. Seat shall then withstand another 60,000 cycles of rotation at its lowest seating position. Total 120,000 cycles.		Pass
9	Tilt Mechanism Test – Cyclic No loss of serviceability after 300,000 cycles under a 109kg (240lbs.) load to the centre of the seat.		Pass

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10	Seating Durability Tests - Cyclic		/
10.3	Impact Test No loss of serviceability in 100,000 cycles impact. A weight of 57kg (125 lbs.) free falls onto the seat from 1.4 in. height.		Pass
10.4	Front Corner Load-Ease Test – Cyclic – Off-center No loss of serviceability after load each seat front corner with 890 N (200 lbf.) for 20,000 cycles, total 40,000 cycles. Note: this test is done after “Impact test” on the same sample.		Pass
11	Stability Tests		/
11.3	Rear Stability		/
11.3.1	Rear Stability Test for Type III Chairs 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 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: • $F = 0.1964 (1195 - H)$ Newton. H is the seat height in mm. • $[F = 1.1 (47 - H)$ pounds force.]. H is the seat height in inches. 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. The chair shall not tip over.		Pass
11.3.2	Rear Stability Test for Type I and II Chairs 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		Pass

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	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. The chair shall not tip over.		
11.4	Front Stability 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. -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.		Pass
12	Arm Strength Test - Vertical – Static 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. 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.		Pass
13	Arm Strength Test - Horizontal – Static Function load: No loss of serviceability when 445N (100 lbs.) for 1 min. is applied horizontally outward to the rmrest at the most forward point of the armrest. 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.		Pass
14	Backrest Durability Test - Cyclic - Type I		Pass

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	No loss of serviceability in 120,000 cycles with a 109 kg (240 lbs.) in the centre of the seat and a 445N (100 lbf.) 90° to the centre of the chair back. For chairs with a back width greater than 406mm (16 in.), test at the centre of chair back for 80,000 cycles and then 102mm (4 in.) off-centre 40,000 cycles, half to each side.		
15	Backrest Durability Test - Cyclic - Type II and Type III No loss of serviceability in 120,000 cycles with a 109 kg (240 lbs.) in the centre of the seat and a 334N (75 lbf.) 90° to the centre of the chair back. For chairs with a back width greater than 406mm (16 in.), test at the centre of chair back for 80,000 cycles and then 102mm (4 in.) off-centre 40,000 cycles, half to each side.		Pass
16	Caster/Chair Base Durability Test – Cyclic No loss of service after 2,000 cycles over a hard surface with 3 obstacles and 98, 000 cycles over a smooth hard surface without obstacles under a 122 kg (270 lb.) load on the seat. Test stroke is 762mm (30 in.) minimum. The caster should not separate under 22N (5 lbs.) pulling force in line with the caster stem after the cycling test.		Pass
17	Leg Strength Test - Front and Side Application No loss of service after 2,000 cycles over a hard surface with 2 obstacles and 98, 000 cycles over a smooth hard surface without obstacles under a 122 kg (270 lb.) load on the seat. Test stroke is 762mm (30 in.) minimum. The caster should not separate under 22N (5 lbs.) pulling force in line with the caster stem after the cycling test.		/
17.3	Front Load Test Function load: No loss of serviceability when a force of 334N (75 lbf.) is applied to each front leg individually for 1 minute. Proof load: No sudden and major change in the structural integrity (loss of serviceability is acceptable) when a force of 503N (113 lbf.) is applied to each front leg individually for 1 minute.		Pass
17.4	Side Load Tests		Pass

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	Function load: No loss of serviceability when a force of 334N (75 lbf.) is applied once to each front and rear leg individually for 1 minute. Proof load: No sudden and major change in the structural integrity (loss of serviceability is acceptable) when a force of 503N (113 lbf.) is applied once to the front and rear leg individually for 1 minute.		
18	Footrest Static Load Test – Vertical Function load: Apply a force F1 of 445 N (100 lbf.) uniformly along a 102 mm (4 in.) distance along the footrest but not greater than 51 mm (2 in.) from the outside edge at the apparent weakest point of the structure for one (1) minute in the vertical downward direction, maintain force F1 and apply an additional force F2 of 445 N (100 lbf.) to the footrest at the opposing position for an additional one (1) minute. If applicable, remove force F2. Increase the force F1 to 200lbf for one (1) minute. There shall be no loss of serviceability or sudden loss of footrest height. Proof load: Apply a force of 1334 N (300 lbf.) uniformly along a 102 mm (4 in.) distance along the footrest but not greater than 51 mm (2 in.) from the outside edge at the apparent weakest point of the structure for one (1) minute in the vertical downward direction. The load applied once shall cause no sudden and major change in the structural integrity of the unit. Loss of serviceability is acceptable.		N/A
19	Footrest Durability Test - Vertical – Cyclic No loss of serviceability after 50,000 cycles of an 890N (200 lbf) load vertical along 102mm (4 in.) length of the footrest at the apparent weakest point of the structure.		N/A
20	Arm Durability Test – Cyclic No structural breakage or loss of serviceability when a force of 400N (90 lbf.) is applied to each arm at a 10° angle $\pm 1^\circ$ for 60,000 cycles.		Pass
21	Out Stop Tests for Chairs with Manually Adjustable Seat Depth Place 74 kg (163 lb.) rigid mass in the centre of the seat, 25 kg (55lbf.) hanging weight shall be held at its most rearward position, then released, permitting it to move forward rapidly and impact the out stops. Repeat for		Pass

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	a total of 25 cycles. There shall be no loss of serviceability to the unit.		
22	Tablet Arm Chair Static Load Test Apply a load of 68 kg (150 lb.) through a 203 mm diameter area 25 mm from the edge of the surface at its apparent weakest point, for five (5) minutes. Shall cause no sudden and major change in the structural integrity of the chair at the first load, and after performing the test, the tablet arm must allow egress form the unit; other losses of serviceability are acceptable.		N/A
23	Tablet Arm Chair Load Ease Test – Cyclic A 343 N (77 lb.) bag shall be raised until the entire weight is off the tablet surface and then eased (without impact) onto the surface, repeat for a total of 100,000 cycles without loss of serviceability to the unit.		N/A
24	Structural Durability Test – Cyclic [This test applies to chairs that do not swivel. It does not apply to chairs with casters or products with seat heights greater than 24 inches.] Place a weight of 109 kg (240 lb.) in the centre of the seat. Apply a force of 334 N (75 lbf.) at an appropriate rate between 10 and 30 cycles per minute on the seat structural frame for 25,000 cycles.		N/A
25	Base Test (informative) No sudden and major change in the structural integrity under 11,100 N (2500 lbs.) compression for 1 min. The weight is then removed and reapplied for 1 min. The centre column may not touch the test platform during load applications.		Pass

*** End of test report ***