

Prüfbericht-Nr.: Test report no.:	CN22N8KI 001	Auftrags-Nr.: Order no.:	244443858 10	Seite 1 von 7 Page 1 of 7
Kunden-Referenz-Nr.: Client reference no.:	/	Auftragsdatum: Order date:	2022.08.18	
Auftraggeber: Client:	Oldenburger Interior Products (Shanghai) Co., Ltd. Zhongchuan Road No.198, Anting Town, 201814 Shanghai			
Prüfgegenstand: Test item:	Stool			
Bezeichnung / Typ-Nr.: Identification / Type no.:	B112			
Auftrags-Inhalt: Order content:	Mechanical safety test for the indoor non-domestic use (level 1)			
Prüfgrundlage: Test specification:	EN 16139:2013/AC:2013 EN 1728:2012+AC:2013 EN 1022:2018			
Wareneingangsdatum: Date of sample receipt:	2022.08.18			
Prüfmuster-Nr.: Test sample no.:	A003320985-001			
Prüfzeitraum: Testing period:	2022.08.18 – 2022.09.06			
Ort der Prüfung: Place of testing:	Rm.103, Bld.17, No.2255 Yueluo Rd. Shanghai			
Prüflaboratorium: Testing laboratory:	TUV Rheinland (Shanghai) Co., Ltd			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:			genehmigt von: authorized by:	
Datum: Date:	06.09.2022		Ausstellungsdatum: Issue date:	06.09.2022
Stellung / Position:	Jack Luo/TE		Stellung / Position:	Sean Yuan / Reviewer
Sonstiges / Other:	Information for use was not provided and covered in this report.			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable
5 = mangelhaft N/T = nicht getestet				
5 = poor 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 a. m. 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	Clause(s) with the symbol " / " in the result refers to the result(s) of its sub-clause(s).

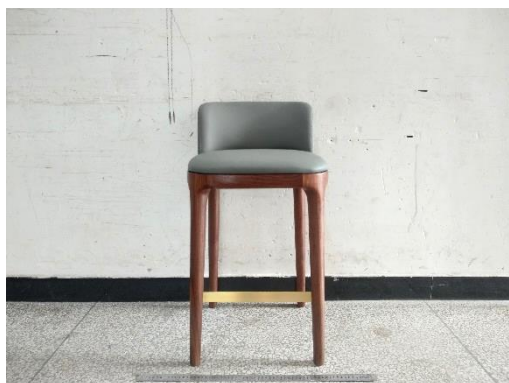
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Produktbeschreibung
Product description

1	Produktdetails Product details	Stool
2	Maße / Gewicht Dimensions / Weight	H x W x D: 730 x 385 x 410 mm, Weight: 5.93 kg
3	Bedienelemente Operating elements	/
4	Ausstattung / Zubehör Equipment / Accessories	/
5	Verwendete Materialien Used materials	/
6	Sonstiges Other	/
7	Prüfmusterbereitstellung: Test sample obtaining:	☒ Sending by customer ☐ Sampling by TÜV Rheinland Group ☐ others:

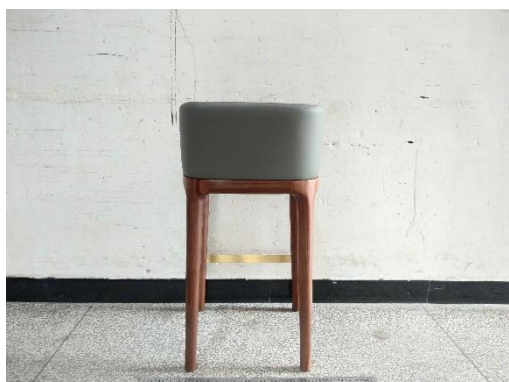
Front View



Side View



Top 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>
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EN 16139:2013/AC:2013 Furniture – Strength, durability and safety – Requirements for non-domestic seating			
1	Scope		
2	Normative references		
3	Terms and definitions		
4	Safety		
4.1	General		P
4.2	Shear and squeeze points		/
4.2.1	Shear and squeeze points when setting up and folding		N/A
4.2.2	Shear and squeeze points under influence of powered mechanism		N/A
4.2.3	Shear and squeeze points during use		P
4.3	Stability		/
4.3.1	General		/
4.3.2	Swiveling chairs (EN 1335-2:2009, 4.3 & EN 1022:2018, 7.3.2)		N/A
4.3.3	Non swiveling chairs (EN 1022:2018)		P
4.4	Rolling resistance of the unloaded chair: - Rolling resistance ≥ 12 N (EN 1335-3:2009, 7.4) - All castors are of the same type		N/A
4.5	Safety of the construction		/
5	Safety, strength and durability requirements (see Table 1)	Refer to below clause(s)	/
/	1. Seat and back static load test (EN 1728:2012, 6.4)		P
/	2. Seat front edge static load test (EN 1728:2012, 6.5)		P
/	3. Vertical static load on back (EN 1728:2012, 6.6)		N/A
/	4. Foot rest and leg rest static load test (EN 1728:2012, 6.8, 6.9)		P
/	5. Arm sideways static load test (EN 1728:2012, 6.10)		N/A
/	6. Arm downwards static load test (EN 1728:2012, 6.11)		N/A
/	7. Vertical upwards static load on arm rests (EN 1728:2012, 6.13.1, 6.13.2)		N/A
/	8. Seat and back durability test (EN 1728:2012, 6.17)		P
/	9. Seat front edge durability test (EN 1728:2012, 6.18)		P
/	10. Arm durability test (EN 1728:2012, 6.20)		N/A
/	11. Foot rest durability test (EN 1728:2012, 6.21)		P
/	12. Leg forward static load test (EN 1728:2012, 6.15)		P
/	13. Leg sideways static load test (EN 1728:2012, 6.16)		P
/	14. Seat impact test (EN 1728:2012, 6.24)		P
/	15. Back impact test (EN 1728: 2012, 6.25)		P
/	16. Arm impact test (EN 1728:2012, 6.26)		N/A
/	17. Drop test (multiple seating) (EN 1728:2012, 6.27.1)		N/A
/	18. Auxiliary writing surface static load test (EN 1728:2012, 6.14)		N/A

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Absatz Clause	Anforderungen - Prüfungen / Requirements - Tests	Messergebnisse – Bemerkungen / Measuring results - Remarks	Ergebnis Result																																																				
/	19. Auxiliary writing surface durability test (EN 1728:2012, 6.22)		N/A																																																				
6	Test methods (see Table 1)																																																						
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; 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.		N/T																																																				
8	Test report																																																						
	Table 1 — Safety, strength and durability tests (1 of 2) <table><tr><th rowspan="2">Test</th><th rowspan="2">Reference</th><th rowspan="2">Loading ^a</th><th colspan="2">Level</th></tr><tr><th>L1</th><th>L2</th></tr><tr><td>1. Seat and back static load test</td><td>EN 1728:2012, 6.4</td><td>Seat: force, N Back: force, N 10 times</td><td>1 600 560 (min. force, 410)</td><td>2 000 700 (min. force, 410)</td></tr><tr><td>2. Seat front edge static load test</td><td>EN 1728:2012, 6.5</td><td>Force, N 10 times</td><td>1 300</td><td>1 600</td></tr><tr><td>3. Vertical static load on back ^b</td><td>EN 1728:2012, 6.6</td><td>Force, N Seat load, N 10 times</td><td>600 1 300</td><td>900 1 800</td></tr><tr><td>4. Foot rest and leg rest static load test</td><td>EN 1728:2012, 6.8, 6.9</td><td>Force, N 10 times</td><td>1 300</td><td>1 600</td></tr><tr><td>5. Arm sideways static load test</td><td>EN 1728:2012, 6.10</td><td>Force, N 10 times</td><td>400</td><td>900</td></tr><tr><td>6. Arm downwards static load test</td><td>EN 1728:2012, 6.11</td><td>Force, N 5 times</td><td>750</td><td>900</td></tr><tr><td>7. Vertical upwards static load on arm rests</td><td>EN 1728:2012, 6.13.1, 6.13.2</td><td>Seat load, N Lift 10 times, during ≥ 10 s</td><td>250 or lift stack with max. 8 chairs of max. 25 kg</td><td>1 200</td></tr><tr><td>8. Seat and back durability test</td><td>EN 1728:2012, 6.17</td><td>Cycles Seat: 1 000 N Back ^c: 300 N</td><td>100 000</td><td>200 000</td></tr><tr><td>9. Seat front edge durability test</td><td>EN 1728:2012, 6.18</td><td>Cycles Force: 800 N</td><td>50 000</td><td>100 000</td></tr></table>			Test	Reference	Loading ^a	Level		L1	L2	1. Seat and back static load test	EN 1728:2012, 6.4	Seat: force, N Back: force, N 10 times	1 600 560 (min. force, 410)	2 000 700 (min. force, 410)	2. Seat front edge static load test	EN 1728:2012, 6.5	Force, N 10 times	1 300	1 600	3. Vertical static load on back ^b	EN 1728:2012, 6.6	Force, N Seat load, N 10 times	600 1 300	900 1 800	4. Foot rest and leg rest static load test	EN 1728:2012, 6.8, 6.9	Force, N 10 times	1 300	1 600	5. Arm sideways static load test	EN 1728:2012, 6.10	Force, N 10 times	400	900	6. Arm downwards static load test	EN 1728:2012, 6.11	Force, N 5 times	750	900	7. Vertical upwards static load on arm rests	EN 1728:2012, 6.13.1, 6.13.2	Seat load, N Lift 10 times, during ≥ 10 s	250 or lift stack with max. 8 chairs of max. 25 kg	1 200	8. Seat and back durability test	EN 1728:2012, 6.17	Cycles Seat: 1 000 N Back ^c : 300 N	100 000	200 000	9. Seat front edge durability test	EN 1728:2012, 6.18	Cycles Force: 800 N	50 000	100 000
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Table 1 (2 of 2)				
Test	Reference	Loading	Level	
			L1	L2
10. Arm durability test	EN 1728:2012, 6.20	Cycles Force: 400 N	30 000	60 000
11. Foot rest durability test	EN 1728:2012, 6.21	Cycles Force: 1 000 N	50 000	100 000
12. Leg forward static load test	EN 1728:2012, 6.15	Force, N Seat load, N 10 times	500 1 000	620 1 800
13. Leg sideways static load test	EN 1728:2012, 6.16	Force, N Seat load, N 10 times	400 1 000	760 1 800
14. Seat impact test	EN 1728:2012, 6.24	Drop height, mm 10 times	240	300
15. Back impact test	EN 1728:2012, 6.25	Height of fall, mm ^a 10 times	210/38	330/48
16. Arm impact test	EN 1728:2012, 6.26	Height of fall, mm ^a 10 times	210/38	330/48
17. Drop test (multiple seating)	EN 1728:2012, 6.27.1	Drop height, mm 2 × 5 times	not applicable	450
18. Auxiliary writing surface static load test	EN 1728:2012, 6.14	Force, N 10 times	300	300
19. Auxiliary writing surface durability test	EN 1728:2012, 6.22	Cycles Force: 150 N	10 000	20 000
^a Seat load on parts not undergoing test: 750 N. ^b 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. ^c No minimum force defined.				

Table A.1 — Additional tests				
Test	Reference	Loading	Level	
			L1	L2
1. Drop test for stacking seating	EN 1728:2012, 6.27.2	Drop height, mm 10 times	150	200
2. Backward fall test	EN 1728:2012, 6.28	Cycles	5	5
3. Drop test from the height of a table	EN 1728:2012, 6.27.3	Drop height, mm 10 times (5 times on one front leg and 5 times on one rear leg)	600	600

EN 1022:2018 Furniture – Seating – Determination of stability

7	Test methods for assessing stability of all seating except loungers		/
7.1	General The stability tests defined in Clause 6 are not applicable to seating which has both the height of the seat loading point (6.4) < 200 mm and a mass < 5 kg.		/
7.2	Requirements When tested according to 7.3 and 7.4, the seating shall not overturn.		/

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7.3	Test procedures, all seating		/
7.3.1	Forwards overturning		P
7.3.2	Forwards overturning for seating with foot rest		P
7.3.3	Corner stability test		P
7.3.4	Sideways overturning, all seating without arm rests		P
7.3.5	Sideways overturning, all other seating		/
7.3.5.1	General This test is applicable to all seating with arms, or where the top edge of the seat on the transverse plane is more than 50 mm above the height of the seat loading point (A).		/
7.3.5.2	Seating with arm rests		N/A
7.3.5.3	Seating with raised side edges		N/A
7.3.6	Rearwards overturning all seating with back rests		N/A
7.4	Additional test procedures for seating with reclining back rests		/
7.4.1	General In addition to the tests in 7.3, seating with reclining back rests shall be subjected to the tests for tilting or reclining, as specified below provided their geometry falls within the reclining angle ranges defined for the appropriate tests. Seating with back rests permanently reclined which fall within the reclining angle ranges for reclining chairs, shall be tested as reclining chairs. The test shall be carried out with the seating in the fully tilted or reclined condition.		/
7.4.2	Tilting seating		N/A
7.4.3	Reclining seating with leg rest		N/A
7.4.4	Reclining seating without leg rest		N/A
7.4.5	Rearwards stability test for rocking chairs		N/A
8	Loungers		N/A

*** END OF TEST REPORT ***