


<b>Prüfbericht-Nr.:</b> <i>Test Report No.:</i>	<b>IN22C0FW 001</b>	<b>Auftrags-Nr.:</b> <i>Order No.:</i>	Seite 1 von 3 Page 1 of 3		
<b>Kunden-Referenz-Nr.:</b> <i>Client Reference No.:</i>	TRF dated on 12/12/2022	<b>Auftragsdatum:</b> <i>Order date:</i>	22.12.2022		
<b>Auftraggeber:</b> <i>Client:</i>	PACE SEATING SYSTEM PVT LTD New #5/6, 4th cross road, Raghavendra layout, Tumkur Road, Yeshwanthpura Bangaluru-560022				
<b>Prüfgegenstand:</b> <i>Test item:</i>	<b>Workstation Chairs Zipp Cushion Chairs</b>				
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type No.:</i>	Style No./SKU No. :Not provided				
<b>Auftrags:</b> <i>Order:</i>	PO No.: Not Provided				
<b>Prüfgrundlage:</b> <i>Test specification</i>	ANSI BIFMA X5.1- 2017 (GENERAL –PURPOSE OFFICE CHAIRS TESTS) STRENGTH, DURABILITY AND SAFETY TESTS FOR OFFICE CHAIRS				
<b>Wareneingangsdatum:</b> <i>Date of receipt:</i>	12.12.2022				
<b>Prüfmuster-Nr.:</b> <i>Test sample No.:</i>	A003393393-001,A003393393-002 and A003393393-003				
<b>Prüfzeitraum:</b> <i>Testing period:</i>	12.12.2022 - 22.12.2022				
<b>Ort der Prüfung:</b> <i>Place of testing</i>	27/B, 2nd Cross, Electronic City, Phase 1, Bangalore- 560 100				
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	TÜV Rheinland (India) Pvt. Ltd-Furniture Laboratory				
<b>Prüfergebnis*:</b> <i>Test result*:</i>	<b>Pass</b>				
<b>geprüft von / tested by:</b> 22.12.2022 Sachin Shivaraj 		<b>kontrolliert von / reviewed by:</b> 22.12.2022 Yogisha Gow da/ Reviw er			
<b>Datum</b> <i>Date</i>	<b>Name / Stellung</b> <i>Name / Position</i>	<b>Unterschrift</b> <i>Signature</i>	<b>Datum</b> <i>Date</i>	<b>Name / Stellung</b> <i>Name / Position</i>	<b>Unterschrift</b> <i>Signature</i>
<b>Sonstiges / Other. Buyer name:</b> Not provided, Country of origin:India, Country of destination:Not Provided, Material: Not Provided , Color Name: Not Provided , End use of product:Office Chair					
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>		Prüfling komplett und beschädigt <i>Test item complete and undamaged</i>			
* Legende: 1 = sehr gut      2 = gut      3 = befriedigend      4 = ausreichend      5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n)      F(ail) = entspricht nicht o.g. Prüfgrundlage(n)      N/A = nicht anwendbar      N/T = nicht getestet Legend: 1 = very good      2 = good      3 = satisfactory      4 = sufficient      5 = poor P(ass) = passed a.m. test specification(s)      F(ail) = failed a.m. test specification(s)      N/A = not applicable      N/T = not tested					
<b>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.</b> <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>					



**Test Report- Hardline**
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**Overall dimensions (unloaded)**

 Height: 1085mm      Width: 725mm      Depth: 725mm      Weight: 17.350kg  
 Seat height: (unload) 555mm      Arm height: (from top to floor) 819mm

 Types of Chairs (per cl. 4)       I     II     III

Clause	Test Item	Parameter			Result*	
			Functional	Proof		Observation
5	Backrest strength test – Static <b>Type I &amp; II</b>	<input checked="" type="checkbox"/> 406mm (H ≥ 452 mm) <input type="checkbox"/> Top loading (H < 452 mm) <input type="checkbox"/> Pivoting point (>20°)	667 N (150 lbf)	1001 N (225 lb)	No loss of serviceability at functional and proof load	<b>P</b>
6	Backrest strength test – Static <b>Type III</b>	<input checked="" type="checkbox"/> 406mm (H ≥ 452 mm) <input type="checkbox"/> Top loading (H < 452 mm)	667 N (150 lbf)	1001 N (225 lb)	No loss of serviceability at functional and proof load	<b>P</b>
7	Drop test - Dynamic <b>All Types</b>	13 mm ± 13 mm from most forward of backrest H = 152 mm(unloaded)	102 kg (225 lbf)	136 kg (225 lbf)	No loss of serviceability at functional and proof load	<b>P</b>
8	Swivel test – Cyclic <b>All Types</b>	122 kg (270 lbf) on 51-64 mm forward rotational axis 360° ± 10° / cycle	120,000 cycles		No loss of serviceability	<b>P</b>
9	Tilt mechanism test - Cyclic <b>Type I &amp; II</b>	109 kg (240 lbf) on center of seat	300,000 cycles		No loss of serviceability	<b>P</b>
10.3	Seating durability test - Cyclic Impact Test <b>All Types</b>	13 mm ± 13 mm from most forward of backrest H = 36 mm (unloaded) 57 kg (125 lbf)	100,000 cycles		No loss of serviceability	<b>P</b>
10.4	Seating durability test Front corner load-ease test – Cyclic – off-center <b>All Types</b>	Flush to front edge 890 N (200 lbf)	20,000 + 20,000 cycles		No loss of serviceability	<b>P</b>
11.3.1	Rear Stability <b>Type III</b>	Appendix G template <input type="checkbox"/> H <sub>seat</sub> ≥ 710 mm, F = 93 N <input checked="" type="checkbox"/> H <sub>seat</sub> < 710 mm, F = <u>125.69</u> N	6 disks		No tip over at 125.69N	<b>P</b>
11.3.2	Rear Stability <b>Type I &amp; II</b>	Appendix G template Most rearward position	12 disks (Modified)		No tip over at 120kg	<b>P*</b>
11.4	Front stability <b>All Types</b>	<input type="checkbox"/> with loading fixture <input checked="" type="checkbox"/> without, alternate methods F <sub>v</sub> = 61 kg, at 60 mm from edge	20 N (4.5 lbf)		No tip over	<b>P</b>

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Clause	Test Item	Parameter			Result*	
		Functional	Proof	Observation		
12	Arm Strength Test – Vertical - Static <b>All Types</b>	Loading adapter (weakest point along arm)	750 N (169 lbf) Max. 6 mm 1 min.	1125N Max. 25 mm 15 Sec	No loss of serviceability at functional load and Proof Load	<b>P</b>
13	Arm Strength Test – Horizontal - Static <b>All Types</b>	< 25 mm loading point (weakest point along arm)	445 N (100 lbf) 1 min.	667 N (150 lbf) 15 sec	No loss of serviceability at functional and proof load	<b>P</b>
14	Backrest Durability test - Cyclic <b>Type I</b>	F <sub>seat</sub> = 109 kg F <sub>back</sub> = 445 N 120,000 cycles	-	-	No loss of serviceability	<b>P</b>
15	Backrest Durability test - Cyclic <b>Type II &amp; III</b>	F <sub>seat</sub> = 109 kg F <sub>back</sub> = 334 N 120,000 cycles	-	-	No loss of serviceability	<b>P</b>
16.1	Caster/Chair Durability test - Cyclic <b>Pedestal base with casters</b>	1 stroke = 762 mm ± 50 mm 1 cycle = 1 forward + 1 backward F <sub>seat</sub> = 122 kg F <sub>pull</sub> = 22 N/caster 2000 cycles (obstacle) + 98,000 cycles (smooth)	-	-	No loss of serviceability	<b>P</b>
20	Arm Durability Test - Cyclic	100 mm length arm pad F = 2 x 400 N (simultaneously) 60,000 cycles	-	-	No loss of serviceability	<b>P</b>

\* Key: P Pass F Fail  
 NC Not Conducted as per client request NT Not Test

DATA

P\* -Met the requirement of customer specified 120kg

 Remark: 1) Testing has been Conducted as per Applicant Request.  
 2) Sample not drawn by TÜV Rheinland India Pvt. Ltd.

**END OF REPORT**