Test Report

Report No.: 104848-16



Gregersensvej DK-2630 Taastrup Tel. +45 72 20 20 00 Fax +45 72 20 20 19

info@teknologisk.dk www.teknologisk.dk

Assignor: Fredericia Furniture A/S

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Item: Model: J39

Type:	Chair					
Length:	450mm	Width:	490mm	Height:	770mm	
Weight:	4,56kg					
Materials:	Lacquered beech, papercord					

Sampling: The test material was sampled by the client and received at the Danish Technological In-

stitute 12-04-2022.

Method: ANSI/BIFMA X5.4-2020 American National Standard For Office Furnishings – Public and

Lounge Seating

Period: The testing was carried out from 25-04-2022 to 13-06-2022.

Result: Model J39 fulfils the requirements of ANSI/BIFMA X5.4-2020

Individual results appear from Appendix 1.

Storage: The test material will be destroyed after 1 month, unless otherwise agreed.

Terms: Accredited testing was carried out in compliance with international requirements (EN/ISO/IEC 17025:2005) and in

compliance with Danish Technological Institute's General Terms and Conditions regarding Commissioned Work accepted by Danish Technological Institute. The test results apply to the tested products only. This report may be

quoted in extract only if the laboratory has granted its written consent.

Date/place: 15-06-2022, Danish Technological Institute, Wood and Biomaterials, Taastrup

Signature: Test responsible Co-signatory









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ANSI/BIFMA X5.4

Test	DII FIA AS.4		Result		
5	Backrest Strength Test – Horizontal – Static (backrest height: >200) mm)				
	Functional load: 667 N x 1 min. Proof load: 1112 N x 10 sec.		Passed		
6	Backrest Strength Test - Vertical - Static (backrest thickness. >50 mm)				
	Functional load: 890 N x 1 min. Proof load: 1334 N x Min. 10 sec.		N/A		
7	Backrest Durability Test - Horizontal - Cyclic				
	Seat constant load: 109 kg Force on back: 334 N x 120,000 cycles				
8	Backrest Durability Test - Vertical - Cyclic (backrest thickness: >50 mm)				
	Force on back: 890 n x 10,000 cycles		N/A		
9	Arm Strength Test - Horizontal - Static (all units with arms)				
	Functional load: 445/592 N x 1 min. inw Proof load: 667/890 N x 10 sec. inv		N/A		
10	Arm Strength Test - Vertical - Static				
	Functional load: 890/750 N x 1 min. Proof load: 1135/1125 N x Min 10 sec	C.	N/A		
11	Arm Durability Test for Multiple Seatin	Arm Durability Test for Multiple Seating Units – Horizontal – Cyclic			
	Force on arm: 445 N x 50,000 cycles		N/A		
12	Arm Durability Test for Multiple Seating	g Units - Vertical - Cyclic			
	Force on arm: 667 N x 10,000 cycles		N/A		
13	Arm Durability Test for Single Seat Uni	ts – Angular – Cyclic			
	Force on (each) arm: 400 N x 60,000 cycle	s	N/A		
14	Seating Durability Test - Cyclic				
	Impact test back: 57 kg x 100,000 cycles (Weight in seat(s) not being tested: 109 kg)		Passed		
15	Drop Test - Dynamic				
	Functional load: 102 kg impact test bag – drop from 152 mm Proof load: 136 kg impact test bag – drop from 152 mm		Passed		
16	Leg Strength Test				
16.3	Front Load Test	Front Load Test			
	Functional load: 334 N x 1 min. Proof load: 503 N (max. 667 N) x Min. 10 sec.		Passed		
16.4	Side Load Test				
	Functional load: 334 N x 1 min. Proof load: 503 N (max. 667 N) x Min. 10 sec.		Passed		
17	Unit Drop Test - Dynamic				
	Unit weight D	rop height			
	<45 kg (100 lbs) 1	80 mm (7.1 in.)	Passed		
	45—90 kg (100-200 lbs) 1	20 mm (4.7 in.)			
		60 mm (2.4 in.)			
	>136 kg (300 lbs) N	/A			



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Test		Result		
18	Caster/Unit Base Durability Test - Cyclic			
	Seat constant load: 122 kg On surface with obstacles: 500 cycles On surface without obstacles: 25,000 cycles Pull force on caster: 22 N x 1 min			
19	Swivel Test - Cyclic			
	Seat constant load: 122 kg 90° rotation x 120,000 cycles			
20	Tilt/rocker/glider Mechanism Test - Cyclic			
	Seat constant load: 109 kg Back tilt: 200,000 cycles			
21	Stability Tests			
21.3 21.4 21.5 21.6	Rear stability: 6 discs (non-tilting unit) 13 discs (tilting unit) Force on back: F = 0.1964 (1195-H) (H = seat height in mm) Front stability: Units <36.3 kg: Seat load: 600 N-pull force 20 N Units >36.3 kg: Pull force: 142 N-45° angle	Passed		
22	Tablet Arm Load Ease Test - Cyclic			
	25 kg x 100,000 cycles	N/A		
23	Tablet Arm Load Test - Static			
	68 kg downward x 1 min.	N/A		
24	Structural Durability Test - Side-to-Side - Cyclic			
	Seat constant load: 109 kg Push/pull force: 334 N x 25,000 cycles	Passed		
25	Cycle Test for Recliners - Backrest and/or Legrest Mechanism Durability			
	Backrest constant load: 56 kg Seat constant load: 56 kg Legrest constant load: 12 kg Legrest + back: 25,000 cycles each	N/A		
26	Legrest Strength Test - Static Load			
	Seat constant load: 112 kg/56 kg Load on legrest: 13.6 kg (no retraction)	N/A		
27	Footrest Static Load Test for Stools – Vertical			
	Functional load: 445 N x 1 min (in two opposite directions) Proof load: 1334N x 10 sec.	N/A		
28	Footrest Durability Test for Stools – Vertical Cyclic			
	Force on footrest: 890 N x 50,000 cycles	N/A		

N/A - Not applicable



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Photo

