Test Report

Report Number: 190534-33



DANISH TECHNOLOGICAL

INSTITUTE

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Encl.: 2

Assignor: FREDERICIA FURNITURE A/S, Treldevej 183, DK-7000 Fredericia

Item: Pioneer Barstool - The test also covers height 67 cm

Sampling: The assignor confirms having selected the product. The product was forwarded by the

assignor and received at Danish Technological Institute on 18 December 2023.

Period: The test took place from 22 December 2023 to 18 January 2024.

Method: EN 16139:2013, Furniture - Strength, durability and safety - Requirements for non domestic

seating

EN 16139 Test severity L2: Extreme use: E.g. in night-clubs, police stations, transport

terminals, sport changing rooms, prisons, barracks (non-controlled areas).

Additional information is given in enclosure B.

Test results: Passed.

The results are shown in enclosure A.

Terms: This test was conducted accredited in accordance with international requirements (ISO/IEC

17025:2017) and in accordance with the General Terms and Conditions of Danish

Technological Institute. The test results solely apply to the tested item. This test report may be quoted in extract only if Danish Technological Institute has granted its written consent.

Place: Danish Technological Institute, Taastrup, Building and Construction

Signature: This document is only valid with a digital signature from Danish Technological Institute.

Date of issue 19 January 2024.

Jan Hansen

Technical consultant



DANISH TECHNOLOGICAL INSTITUTE







Test of Model: Pioneer Barstool

Loading according to test severity L2.

Test no.	Test	Test Method	Cycles	Load	Result
4.1	General	EN 16139, 4.1			Passed
4.2.2	Shear and squeeze points under influence	EN 16139, 4.2.2			N/A
	of powered mechanisms				
4.2.3	Shear and squeeze points during use	EN 16139, 4.2.3			
4.3.2	Swivelling chairs	EN 1335			N/A
4.3.3	Non swivelling chairs	EN 1022			Passed
4.4	Rolling resistance of the unloaded chair	EN 16139, 4.4			N/A
5	Safety, strength and durability requirements	EN 16139, 5			Passed
6.1.1	Seat static load and back static load test	EN 1728, 6.4	10 Seat: 2000 N 10 Back: 700 N		Passed
6.1.2	Seat front edge static load	EN 1728, 6.5	10	Seat: 1600 N	Passed
6.1.3	Vertical load on back rests	EN 1728, 6.6	10	Seat: Back:	N/A
6.1.4	Foot rest static load test	EN 1728, 6.8	10	1600 N	Passed
6.1.4	Leg rest static load test	EN 1728, 6.9	10		N/A
6.1.5	Arm rest sideways static load test	EN 1728, 6.10	10		N/A
6.1.6	Arm rest downwards static load test	EN 1728, 6.11	5		N/A
6.1.7	Vertical upwards static load on arm rests	EN 1728, 6.13	10		N/A
6.1.8	Combined seat and back durability test	EN 1728, 6.17	200000 200000	Seat: 1000 N Back: 300 N	Passed
6.1.9	Seat front edge durability test	EN 1728, 6.18	100000	800 N	Passed
6.1.10	Arm rest durability test	EN 1728, 6.20	60000		N/A
6.1.11	Foot rest durability test	EN 1728, 6.21	100000	1000 N	Passed
6.1.12	Leg forward static load test	EN 1728, 6.15	10	Edge: 375 N (Seat: 1800 N)	Passed
Comment	The loading was reduced from 620N to 375N to avo	id tilting.			
6.1.13	Legs sideways static load test	EN 1728, 6.16	10	Edge: 250 N (Seat: 1800 N)	Passed
Comment	The loading was reduced from 760N to 250N to avo	id tilting.			'
6.1.14	Seat impact test	EN 1728, 6.24	10	300 mm	Passed
6.1.15	Back impact test	EN 1728, 6.25	10	330 mm / 48 °	Passed
5.1.16	Arm Impact Test	EN 1728, 6.26	10		N/A
6.1.17	Drop test (multiple seating)	EN 1728, 6.27.1	2 x 5		N/A
5.1.18	Auxiliary writing surface static load test	EN 1728, 6.14			N/A
6.1.19	Auxiliary writing surface durability test	EN 1728, 6.22	20000		N/A
7	Information for use	EN 16139, 7			N/A
	1	1		1	1



Information required by EN 16139:2013

European Standards used:

EN 16139:2013 - Furniture - Strength, durability and safety - Requirements for non-domestic seating

EN 1728/AC:2012 - Domestic furniture - Seating - Test methods - Determination of strength and durability

EN 1022:2005 - Domestic furniture - Seating - Determination of stability

EN 1335:2009 - Office furniture - Office work chair - Part 3: Test methods

Details of tested seating:

Model:	Pioneer Barstool			Type:	Barstool				
Length:	400 mm	Depth:	400 mm	Height:	780 mm	Weight:	5.16 kg		
Materials:	Painted wood								

Details of defects observed before testing:

None.

Details of any deviations from this standard:

None.

Any variation from the specified temperature range:

None.

Test result:

See appendix A.

Name and address of the test facility:

Danish Technological Institute, Gregersensvej, Taastrup 2630, Denmark

Date of test:

2023-12-22 to 2024-01-18

Storage:

The test material will be destroyed 1 month after the test is completed, unless otherwise agreed in writing.



Photo of the received sample:



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