

Test Report

Report No: 903343-9



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No. of appendices: 3

Subject: Model: Palissade Chaise Longue

Type:	Chair				
Length:	1645 mm	Width:	655 mm	Height:	710 mm
Weight:	19.7 kg				
Materials:	Metal				

Sampling: The test material was sampled by the client and received at the Danish Technological Institute 30-01-2020.

Method: EN 581-1:2017 Outdoor furniture – Seating and tables for camping, domestic and contract use – Part 1: General safety requirements

EN 581-2:2015 Outdoor furniture – seating and tables for camping, domestic and contract use – Part 2: Mechanical safety requirements and test methods for seating

Period: The testing was carried out from 10-02-2020 to 05-03-2020.

Result: Model Palissade Chaise Longue fulfils the requirements of EN 581-1:2017 and EN 581-2:2015.

Individual results appear from Appendices 1 and 2.

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: 05-03-2020, Danish Technological Institute, Wood and Biomaterials, Taastrup

Signature: Test responsible

Co-signatory



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EN 581-1:2017

Test	Safety Requirements	Result
5.1	General	Passed
5.2	Tubular components	Passed
5.3	Shear and squeeze points	
5.3.1	Shear and squeeze points when erecting, adjusting and folding away	N/A
5.3.2	Shear and squeeze points under the influence of powered mechanisms	N/A
5.3.3	Shear and squeeze points during use	Passed

Reference is made to annexes A + B in EN 581-1:2017.

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EN 581-2:2015 - Test sequences and test parameters for loungers, Table 1

	Test	Reference	Test parameters	Camping	Domestic	Contract	Result	
1	Seat static and back static load test ^a	EN 1728:2012, 8.2	Specified seat load, N Specified backrest load, N Minimum specified force F2 (back) N Cycles Additional cycle 30 min. ± 10 s	1100 - - 10 1	1600 410 360 10 1	2000 560 500 10 1	Passed	
2	Additional seat and leg rest static load test	EN 1728:2012, 8.3	Seat load on loading point, N Force applied on D-E point, N	750 600	750 900	750 900	Passed	
3	Seat and back durability test ^a	EN 1728:2012, 8.4.1	Specified seat load, N Specified backrest load, N Minimum specified force F2 (back) N Cycles	750 250 220 12500	1000 333 300 25000	1000 333 300 50000	Passed	
4	Additional seat durability test	EN 1728:2012, 8.4.2	Specified force, N Cycles	750 5000	1000 10000	1000 20000	Passed	
5	Durability test on back rest mechanism	EN 1728:2012, 8.5	Specified force, N Seat load, N Cycles	190 1000 5000	250 1000 10000	250 1000 2000	N/A	
6	Arm rest static load test	EN 1728:2012, 8.6	Vertical specified force, N	-	700	900 ^b	N/A	
7	Arm rest durability test	EN 1728:2012, 8.7	Specified force, N Cycles	400 5000	400 10000	400 30000	N/A	
8	Impact test	EN 1728:2012, 8.8	Drop height, mm Cycles	140 10	180 10	240 10	Passed	
9	Lifting test for mobile loungers	EN 1728:2012, 8.9	Load, N Cycles	1000 500	1000 1000	1000 2000	N/A	
10	Forward stability ^{c, d}	A.1.2						Passed
11	Rearward stability ^c	EN 1022:2005, 6.6 for upright position and 7.5 for most reclined position					Passed	
12	Sideways stability ^{c, d}	A1.1						Passed
6.2.2	Requirements The safety, strength and durability requirements are fulfilled after testing in accordance with Table 1 when: a) There are no fractures of any joint, member or component b) There is no loosening of joints intended to be rigid c) The seating fulfils its function after removal of the test loads d) The product shall not overturn when subjected to the stability tests							
	a) If seat and back are of one piece of flexible material (e.g. textile), only the tests on seat shall be carried out. b) If armrest is less than 15 mm wide, carry out test with 700 N for contract use c) In the case of seating, which might not fulfil the stability requirements before carrying out any tests, the applicable stability tests may be carried out before starting the sequence of tests specified in this table. d) This test is not applicable for seating with a seat height <200 mm and mass >5 kg. The height shall be determined by measuring from the floor to the upper seating area on the geometrical centre of the unloaded seat.							

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Photo

