

# Test Report

Report No.: 792549-17



**DANISH  
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INSTITUTE**

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No. of appendices: 3

**Subject:** Model: Butler

Type:	Stool				
Length:	500 mm	Width:	430 mm	Height:	500 mm
Weight	6.1 kg				
Materials:	Painted wood				

**Sampling:** The test material was sampled by the client and received at the Danish Technological Institute 03-04-2018.

**Method:** **EN 1022:2005** Domestic furniture - Seating - Determination of stability.  
**EN 16139:2013** Furniture - Strength, durability and safety - Requirements for non-domestic seating.  
Clauses 4.1, 4.2.3, 4.3.3, 5, 6.1.1, 6.1.2, 6.1.8, 6.1.9, 6.1.12, 6.1.13, 6.1.14, 6.1.15.

L2: Extreme use: E.g. in night-clubs, police stations, transport terminals, sport changing rooms, prisons, barracks (non-controlled areas).

**Period:** The testing was carried out from to 03-04-2018 to 03-05-2018.

**Result:** Model Butler fulfils the requirements of EN 16139:2013.

Individual results appear from Appendix 1.

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

**Terms:** The accredited test was carried out according to DANAK's general conditions see [www.danak.dk](http://www.danak.dk) and according to the General Terms and Conditions regarding Commissioned Work Accepted by the Danish Technological Institute, which apply at the time of signing the agreement. The test is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

**Date/place:** 03-05-2018, Danish Technological Institute, Wood and Biomaterials, Taastrup

**Signature:** Test responsible

Co-signatory



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## Test of Model: Butler

### Loading according to Test severity L2.

Test	Test Method	Cycles	Load	Result
4.1 General	EN 16139, 4.1			Passed
4.2.2 Shear and squeeze points under influence of powered mechanisms	EN 16139, 4.2.2			N/A
4.2.3 Shear and squeeze points during use	EN 16139, 4.2.3			Passed
4.3.2 Swivelling chairs	EN 1022			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 Strength and durability requirements	EN 16139, 5			Passed
6.1.1 Seat static load and back static load test	EN 1728:2012, 6.4	10 10	Seat: 2000 N Back: 700 N	Passed
6.1.2 Seat front edge static load	EN 1728:2012, 6.5	10	Seat: 1600 N	Passed
6.1.3 Vertical load on back rests	EN 1728:2012, 6.6			N/A
6.1.4 Foot rest static load test	EN 1728:2012, 6.8			N/A
6.1.4 Leg rest static load test	EN 1728:2012, 6.9			N/A
6.1.5 Arm rest sideways static load test	EN 1728:2012, 6.10			N/A
6.1.6 Arm rest downwards static load test	EN 1728:2012, 6.11			N/A
6.1.7 Vertical upwards static load on arm rests	EN 1728:2012, 6.13			N/A
6.1.8 Combined seat and back durability test	EN 1728:2012, 6.17	200000 200000	Seat: 1000 N Back: 300 N	Passed
6.1.9 Seat front edge durability test	EN 1728:2012, 6.18	100000	800 N	Passed
6.1.10 Arm rest durability test	EN 1728:2012, 6.20			N/A
6.1.11 Foot rest durability test	EN 1728:2012, 6.21			N/A
6.1.12 Leg forward static load test	EN 1728:2012, 6.15	10	Edge: 620 N) (Seat: 1800 N)	Passed
6.1.13 Legs sideways static load test	EN 1728:2012, 6.16	10	Edge: 760 N) (Seat: 1800 N)	Passed
6.1.14 Seat impact test	EN 1728:2012, 6.24	10	300 mm	Passed
6.1.15 Back impact test	EN 1728:2012, 6.25	10	330 mm / 48°	Passed
6.1.16 Arm Impact Test	EN 1728:2012, 6.26			N/A
6.1.17 Drop test (multiple seating)	EN 1728:2012, 6.27.1			N/A
6.1.18 Auxiliary writing surface static load test	EN 1728:2012, 6.14			N/A
6.1.19 Auxiliary writing surface durability test	EN 1728:2012, 6.22			N/A
7 Information for use	EN 16139, 7			N/A

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### Photo

