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## WOOD TECHNOLOGY CENTRE TESTING LABORATORY OF WOOD, WOOD-BASED MATERIALS, PACKAGING, FURNITURE AND CONSTRUCTIONS

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## TESTING LABORATORY OF WOOD, WOOD-BASED MATERIALS, PACKAGING, FURNITURE AND CONSTRUCTIONS

FURNITURE TESTING SECTION

Poznań, 2022-11-07



AB 088



# TEST REPORT

## No. 3484/2022/S.D.

**Subject of the order** Tests of PAULINE easy chair (swivel base).  
**Order No.** A-3484-BDD/2022  
**Name and address of the client/manufacturer producer** FLOKK sp. z o.o.  
ul. Górnicza 8  
62-700 Turek  
**Performance date** 2022-11-07  
**Operators** Michał Rogoziński, Adam Remlein

Compiled by

Authorized by

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Michał Rogoziński

Marek Kalbrun

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## 1. IDENTIFICATION (DESCRIPTION OF THE TESTED OBJECT)

The tested object was PAULINE easy chair (swivel base), ordered by the company FLOKK sp. z o.o. Sample for the tests was delivered by the orderer.



## 2. DATE THE OBJECT WAS RECEIVED FOR TESTING

The test sample was delivered for tests 2022-10-03.

## 3. SYMBOL AND NAME OF THE TEST METHOD APPLIED

The tests were carried out according to the standards:  
EN 16139:2013 Furniture - Strength, durability and safety - Requirements for non-domestic seating”,  
(test level 1).  
Test Method 2D.

## 4. LIST OF MEASURING APPARATUSES

The following equipment was used for the tests:

- seating furniture testing apparatus No. D1/B2,
- loading point setting template No. D3/P09
- force measuring set AST No. D2/04,
- metal measuring tape No. D2/19,
- furniture drop test rig D3/B2, D3/N04,
- furniture test rig D2/13,
- furniture stability testing apparatus No. D3/B1A-B,

The equipment was currently checked before use.

## 5. TEST RESULTS

Test results are shown in tables No. 1÷2/3484.

## 6. STATEMENT

Test results refer only to the tested sample.

Test report cannot be copied in parts only as entire form.

**TABLE No. 1/3484**  
**NON-DOMESTIC SEATING STRENGTH, DURABILITY AND SAFETY TESTS**

According to: EN 16139:2013, test level 1  
 Tested object: **PAULINE easy chair (swivel base)**  
 Orderer: **FLOKK sp. z o.o.**  
 Order No.: A-3484-BDD/2022

Listing acc. PN-EN 16139	Type of test	Test parameters	Test results		
4.1	Safety – General	acc. norm	pass		
4.2.1	Shear and squeeze points when setting up and folding	-	not applicable		
4.2.2	Shear and squeeze points under influence of powered mechanisms	acc. norm	pass		
4.2.3	Shear and squeeze points during use	acc. norm	pass		
4.3.1	Stability - General	acc. norm	pass		
4.3.2	Swiveling chairs	acc. norm	see protocol No. 2		
4.3.3	Non swiveling chairs	-	not applicable		
4.4	Rolling resistance of the unloaded chair	-	not applicable		
4.5	Safety of the construction	acc. norm	pass		
5	Safety, strength and durability requirements	acc. norm	pass		
6	Table 1	1	Seat and back static load test	$P_1=1600\text{ N}$ , $P_2=560\text{ N}$ , $n=10$	pass
		2	Seat front edge static load test	$P=1300\text{ N}$ , $n=10$	pass
		3	Vertical static load on back	$P_1=600\text{ N}$ , $P_2=1300\text{ N}$ , $n=10$	pass
		4	Foot rest and leg rest static load test	-	not applicable
		5	Arm sideways static load test	$P=400\text{ N}$ , $n=10$	pass
		6	Arm downwards static load test	$P=750\text{ N}$ , $n=5$	pass
		7	Vertical upwards static load on arm rest	-	not applicable
		8	Seat and back durability test	$P_1=1000\text{ N}$ , $P_2=300\text{ N}$ $n=100\ 000$	pass
6	Table 1	9	Seat front edge durability test	$P=800\text{ N}$ , $n=50\ 000$	pass
		10	Arm durability test	$P=400\text{ N}$ , $n=30\ 000$	pass
		11	Foot rest durability test	-	not applicable
		12	Leg forward static load test	$P_1=500\text{ N}$ , $P_2=1000\text{ N}$ , $n=10$	pass
		13	Leg sideways static load test	$P_1=400\text{ N}$ , $P_2=1000\text{ N}$ , $n=10$	pass
		14	Seat impact test	$h=240\text{ mm}$ , $n=10$	pass
		15	Back impact test	$h=210\text{ mm}$ , $n=10$	pass
		16	Arm impact test	$h=210\text{ mm}$ , $\alpha=38^\circ$ , $n=10$	pass
		17	Drop test (multiple seating)	-	not applicable
		18	Auxiliary writing surface static load test	-	not applicable
		19	Auxiliary writing surface durability test	-	not applicable
7	Information for use	acc. norm	pass		

**TABLE No. 2/3484**  
**SEATING FURNITURE STABILITY**

According to: EN 1022:2018  
 Tested object: **PAULINE easy chair (swivel base)**  
 Orderer: **FLOKK sp. z o.o.**  
 Order No.: A-3484-BDD/2022

Test Number acc. PN-EN 1022	Test type acc. PN-EN 1022	Test results
7.3.1	Forwards overturning	pass
7.3.2	Forwards overturning for seating with foot rest	not applicable
7.3.3	Corner stability test	pass
7.3.4	Sideways overturning, all seating without arm rests	not applicable
7.3.5.2	Seating with arm rests	pass
7.3.5.3	Seating with raised side edges	not applicable
7.3.6	Rearwards overturning all seating with back rest	pass
7.4.2	Tilting seating	not applicable
7.4.3	Reclining seating with leg rest	not applicable
7.4.4	Reclining seating without leg rest	not applicable
7.4.5	Rearwards stability test for rocking chairs	not applicable
8.3.1	Loungers – Forwards overturning	not applicable
8.3.2	Loungers – Sideways overturning	not applicable

M.Rogozński. A.Remlein  
Operators

2022-11-07  
Date

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