



# INSTYTUT TECHNOLOGII DREWNA

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AB 088

WOOD, WOOD-BASED MATERIALS, PACKAGING, FURNITURE, WOODEN CONSTRUCTIONS AND  
WOODWORKING MACHINES TESTING LABORATORY



FURNITURE TESTING SECTION

Poznań, 2018-08-20

## TEST REPORT No. 2044/2018/S.D.

**Subject of the order:** Tests of armchair FAN 10E.

**Order No:** A- 2044-BBM/2018

**Name and address of the customer:** Profim sp. z o.o.  
Ul. Górnicza 8  
62-700 Turek

**Performance date:** 2018-08-20

**Operators:**

First name and surname	Signature
M.Sc.(Eng.) Michał Rogoziński	

Authorised representative

M.Sc.(Eng.) Marek Kalbrun

INSTYTUT TECHNOLOGII DREWNA  
LABORATORIUM BADANIA DREWNA  
MATERIALÓW DREWNOPOCHODNYCH  
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60-654 Poznań, ul. Winiarska 1

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

The tested object was armchair FAN 10E, ordered for the tests by the company Profim sp. z o.o. The sample for tests was chosen by the orderer.



## 2. DATE THE OBJECT WAS RECEIVED FOR TESTING

The test sample was delivered for tests 2018-06-20.

## 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 Methods D2.

## 4. LIST OF MEASURING APPARATUSES

The following equipment was used for the tests:

- seatings 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 protocols No. 1÷2/ 2044.

## 6. STATEMENT

Test results described in protocols refer only to the tested sample.

Test report can not be copied in parts only as entire form.

**PROTOCOL No. 1/ 2044**  
**NON-DOMESTIC SEATING STRENGTH, DURABILITY AND SAFETY TESTS**

acc. EN 16139:2013, test level 1  
 Tested object **Armchair FAN 10E**  
 Orderer **Profim sp. z o.o.**  
 Order No. A- 2044-BBM/2018

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	Swivelling chairs	acc. norm	pass		
4.3.3	Non swivelling chairs	acc. norm	pass		
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 <sub>1</sub> =1600 N P <sub>2</sub> =560 N n=10	pass
		2	Seat front edge static load test	P=1300 N n=10	pass
		3	Vertical static load on back	P <sub>1</sub> =600 N P <sub>2</sub> =1300 N n=10	pass
		4	Foot rest and leg rest static load test	-	not applicable
		5	Arm sideways static load test	P=400 N n=10	pass
		6	Arm downwards static load test	P=750 N n=5	pass
		7	Vertical upwards static load on arm rest	-	not applicable
		8	Seat and back durability test	P <sub>1</sub> =1000 N P <sub>2</sub> =300 N n=100 000	pass

6	table 1	9	Seat front edge durability test	P=800 N n=50 000	pass
		10	Arm durability test	P=400 N n=30 000	pass
		11	Foot rest durability test	-	not applicable
		12	Leg forward static load test	P <sub>1</sub> =500 N P <sub>2</sub> =1000 N n=10	pass
		13	Leg sideways static load test	P <sub>1</sub> =400 N P <sub>2</sub> =1000 N n=10	pass
		14	Seat impact test	h=240 mm n=10	pass
		15	Back impact test	h=210 mm n=10	pass
		16	Arm impact test	h=210 mm 38° 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	

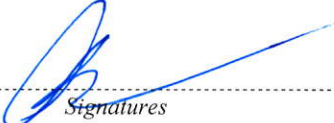
**PROTOCOL No. 2/ 2044**  
**SEATING FURNITURE STABILITY**

According to: PN-EN 1022:2007  
Tested object: **Armchair FAN 10E**  
Orderer: **Profim sp. z o.o.**  
Order No.: A- 2044-BBM/2018

Test Number acc. PN-EN 1022	Test type acc. PN-EN 1022	Test results
6.2	forwards overbalancing, all seating	pass
6.3	forwards overturning for seating with footrest	not applicable
6.4	sideways overbalancing, all seating without arms	not applicable
6.5	sideways overbalancing, all seating with arms	pass
6.6	rearwards overbalancing, all seating with backs	pass
7.3	tilting chairs	pass
7.4	rocking chairs	not applicable
7.5	reclining chairs with footrests	not applicable
7.6	footrest test	not applicable
7.7	reclining chairs without footrests	not applicable

MSc.Eng. M. Rogoziński  
Operators

2018-08-20  
Date

  
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Signatures

----- end of test report -----