

# NTRE FOR TESTING AND CERTIFICATION - MECH-TEST

**Mechanical Laboratory** 

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Date 10.07.2017

### TEST REPORT NO. *CBC-138/2017*

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Subject of testing:

Assistive products for walking

Classification according to PN-EN ISO 9999:2011:

12 03 03

Type / Model:

Foldable walking cane

manipulated by one arm

Item. no.:

315016

Manufacturer:

MOBILEX A/S,

Number of specimens: 2

Grønlandsvej 5, DK-8660 Skanderborg

Applicant:

A-Net s.c., ul. Łaskowice 174, 93-469 Łódź

Kind of testing

Mechanical testing for conformity with PN-EN 11334-1:2007 -

clause 4,6; methods - clause 5

Test started: 22.06.2017

Test finished: 10.07.2017

Approved by: YREKTOR

mgr inż. Andrzej Tkaczyk

Special comments / enclosures:

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Test results refer only to tested units.

Test results reported here are not applicable to the further modifications of the product affecting his structure, material or technology This test report shall be neither copied differently as in the whole nor be published without written consent of the Laboratory



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PHOTO OF PRODUCT

385 g

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#### CHARACTERISTIC OF STICK

Foldable walking cane Name:

Maximum permissible user ma			ss: 100 kg	Mass of stick:
		Description	1	Comments
Dimensions of stick:	Overall	min.	847 mm	5 positions of
	height of	max.	947 mm	adjustment
	stick:			augustinera
	Leg section min.		-	
	length	max.		
	(l):	number of		
ü	100	fixing positions		
s of stick	Arm	min.		
	section	max.		
	length	number of		
ion	(a):	fixing positions		
ens	Handgrip length (h):		125 mm	
Ĭ.	Handgrip width:		N/T	
Q	Cuff interna	l width (y):	an an	
	Cuff internal depth (x):			
	Cuff internal height (z):			
	Support angle (α):			
	Grip angle (β):			
	Tip diameter:		39 mm	
Material:	Leg section:		Tubes – aluminum Ø 22 mm, Ø 19 mm	
	Handgrip:		Plastic	Black colour
	Arm section:			
M	Cuff:			
	Tip:		Rubber	Black colour
•	Reflective	back	Not included	
	elements	front	Not Included	





MOBILEX A/S Grønlandsvej 5 DK-8660 Skanderborg Tel: +45 87 93 22 20 www.mobilex.dk









Produced

Serial no.











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<b>4</b>		LESUL.	T OF TESTS ACCORDING TO	PN-EN 150 11.	334-1:200	0 /
Requirement s according to clause	Test method according to clause	cha	Checked racteristics/assemblies/parameters	Test result	Opinion	Comments
1	2		3	4	5	6
	Measur.		Overall height of stick (min.)	847 mm	N/R	
	Measur.		Overall height of stick (max.)	947 mm	N/R	
	Measur.		Leg section length (l <sub>min.</sub> )		N/A	
	Measur.		Leg section length (l <sub>max.)</sub>	LL)	N/A	
	Measur.	<u>\</u>	Arm section length (a <sub>min.</sub> )			
	Measur.	Dimensions of stick	Arm section length (a <sub>max</sub> )		N/A	
	Measur.	s of	Handgrip length (h)	125 mm	N/R	
	Measur.	ons	Handgrip width (5)		N/T	NOTE 2
	Measur.	nsi	Cuff internal depth (x)		N/A	
	Measur.	me	Cuff internal with (y)		N/A	
	Measur.	Di	Cuff internal height (z)		N/A	
	Measur.		Width of opening in cuff		N/A	
	Measur.		Support angle α		N/A	
	Measur.	7	Grip angle β		N/A	
	Measur.		Tip diameter	39 mm	Pos.	
	Measur.	Mass of s		385 g	N/R	
4.1	V/I		Securely fixing of cuff		N/A	
	V/I		Internal cuff dimensions	<del> </del>	18721	
	Measur.			-	N/A	
T	V/I		Position of internal cuff surface towards its			
	Measur.	Cuff	suport line		N/A	
	Measur.		Relation of internal cuff depth to its internal width		N/A	
	Measur.		Cuff internal height (z)		N/A	
	5.4		Withdrawal test		N/A	
4.2	V/I Measur.	Handgrip	Securely fixing of handgrip	Conf.	Pos.	1
	V/I		Handgrip resistance to sliding of hand when crutch is in use	Conf.	Pos.	
	Measur.		Handgrip width :		N/T	Handgrip width required ≥ 25mm i ≤ 50mm NOTE 2
	V/I		Ease of clearing	Conf.	Pos.	1101111
1.3	5.3 V/I	on	Construction, tip characteristics	Conf.	Pos.	
	Measur.	Leg section and tip	Tip diameter	39 mm Conf.	Pos.	Tip diameter require ≥ 35mm
1.4	V/I	Adjusting devices	Fastness to loosening of height adjustment elements	Conf.	Pos.	
	V/I		Maximum extension of the height adjust- ment, marked on the adjusting members	Conf.	Pos.	120
	V/I	Adjust	Possibility of adjustment elements operation without use of tools	Conf.	Pos.	
.5	V/I	Materials			N/T	Manufacturer's declaration



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Requirement s according to clause	Test method according to clause	Checl	ked characteristics/assemblies/parameters	Test result	Opinion	Comments
1	2		3	4	5	6
4.6	5.5	Mecha- nical	Stick element separation test (including handgrip)	Conf.	Pos.	loading 500N NOTE 1:
	5.6	durabi-	Static loading test	Conf.	Pos.	loading 1000N
	5.7	lity	Fatigue strength of stick	1 000 000 cycles	Pos.	loading 550N
	5.8		Low temperature falling test	Conf.	Pos.	
PN-EN 1041	V/I	Informatio	on supplied by the manufacturer		N/T	
6.2 6.3	V/I	Marking a	nd labelling	Conf.	Pos.	
Test conditions:		Temperature of air		21°C	Temperature required 21°C +/-2°C	
		Relative h	umidity of air:	41%		N/R.
Commer	nts:					

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All tests were performed at maximum height of sticks

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Two sticks of the same type and kind were tested: one was put to fatigue test and separation test, the other was put to static loading test and low temperature falling test.

Sequence of tests: measurements, separation test, static loading test, fatigue test, stability test, low temperature falling test.

During visual inspection before testing any visible defects that could have influence on test results were not stated.

Pos. – positive; Neg – negative; N/T – not tested; N/A – not applicable; N/R – not required , N/O – not occurred , V/I.- visual inspection, Conf.- conformed.

NOTE 1: The test related to the buton cell clamp and fitting the tube in the handgrip

NOTE 2: Manufacturer excluded from tests measuring the width of the handgrip

#### **CONCLUSIONS:**

Test object **complies** with requirements of PN-EN ISO 11334-1:2007 - "Assistive products for walking manipulated by one arm. Elbow crutches. Requirements and test methods" – clauses 4, 6 (methods –clause. 5) with the exception of tests of biological compatibility of the material with the human body according to PN-EN ISO 10993-1:2010 and measuring the width of the handgrip





Annex to Report No.: CBC-138/2017

## INFORMATION SUPPLIED BY THE MANUFACTURER

Name of product: Foldable walking cane

Applicant: A-Net s.c.

93-469 Łódź, ul. Łaskowice 174

Requ	irement according to PN-EN ISO 11334-1:2007	Included	
6.2	Information of product	, <u> </u>	
6.2a	Maximum permissible user mass	N/T	
6.2b	Manufacturer's name or trade name and address	N/T	
6.2c	Manufacturer's model identification name and/or number	N/T	
6.2d	Month and year of manufacture	N/T	
6.2e	Maximum extension of the height adjustment, marked on the adjusting members	N/T	
Infor	mation in documentation, on tag or on product	****	
6.3a	Maximum arm section length a <sub>max</sub>	N/T	
6.3b	Minimum arm section length a <sub>min</sub>	N/T	
6.3c	Maximum leg section length l <sub>max</sub>	N/T	
6.3d	Minimum leg section length. I <sub>min</sub>	N/T	
6.3e	Support angle α	N/T	
6.3f	Cleaning instructions, including a description of the method and suitable cleaning agents and any precautions needed to avoid corrosion and/or ageing of the materials used in construction of the elbow crutch	N/T	
6.3g	Instructions for assembly, adjustment of all kinds, folding and unfolding, if applicable	N/T	
6.3h	Warnings and advice about precautions relating to safe distances between moving and stationary parts, if applicable (see EN 12182:2012, Clauses 12 and 13, for guidance)	N/T	
C	E Marking	N/T	

N/A- not applicable, N/T - not tested

