



# CENTRE FOR TESTING AND CERTIFICATION - MECH-TEST

## Mechanical Laboratory

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Date 20.08.2018

### TEST REPORT NO. **CBC-075/2018**

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Subject of testing:	<i>Walking aids with built-in handgrips and three or more legs of which two or more are having wheels, which provide support whilst walking</i>	Classification according to PN-EN ISO 9999:2011 : 12 06 06
Type / Model:	<i>Balance rollator</i>	Nr kat.: -- Art. Nr.: 312481 312482 312483 312484 312485
Manufacturer:	<i>MOBILEX A/S Grønlandsvej 5 DK – 8660 Skanderborg</i>	Number of specimens: 1
Applicant:	<i>A-Net s.c. 93-469 Łódź, ul. Łaskowice 174</i>	
Kind of testing	<i>Mechanical testing for conformity with PN-EN ISO 11199-2 : 2005</i>	
Test started:	31.07.2018	
Test finished:	20.08.2018	

Approved by:

DYREKTOR  
  
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 its structure, material or technology.

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## CHARACTERISTIC OF PRODUCT

Name : *Balance rollator*

Dimension of rollator: --

SN: --

Art. nr.: 312481, 312482, 312483, 312484, 312485

Maximum permissible user mass: 120 kg

Mass of rollator: 8,08 kg

## Description

## PHOTO OF PRODUCT

Elements/parameters/materials/dimensions		Comments
Dimensions of walking rollator (fig. 2 PN-EN ISO 11199-2)	Distance between handgrips (dimension 2)	438/460 mm
	Angle between of handgrip axis and direction of movement ( $\alpha$ )	4°
	Height of rollator (dimension 6)	744 mm min. 885 mm max.
	Width of rollator (dimension 5)	627 mm
	Turning width (dimension 1)	632 mm
	Length of rollator (dimension 4)	628 mm
	Dimensions of folded rollator (mm)	807 x 627 x 260
Fig. 3	Handgrip - diameter	27x41 mm 32x45 mm
	Handgrip - length	120/80 mm
Wheels of rollator	Front wheels - quantity	2
	Front wheels - diameter	161 mm
	Front wheels - width	26/29 mm
	Front wheels - brake	none
	Rear wheels - quantity	2
	Rear wheels - diameter	161 mm
	Rear wheels - width	26/29 mm
	Rear wheels - brake	Included
Tip	Diameter	
	Material	Not any
	Colour	
Material of rollator (fig. 1)	Front legs	Aluminum,
	Bracing member (no. 8)	Steel,
	Rear legs	Hard plastic,
	Height adjusting device (no. 4)	Bolts, nuts
	Handgrip (no 5), Brake elements	Hard plastic


**Balance rollator**  
For indoor use only

Item nr. 312481 (red) - 312482 (grey)

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

Max. 120 kg

Max. width = 63 cm



Produced



Serial no.





## RESULT OF TESTS ACCORDING TO PN-EN ISO 11199-2:2005

Requirements according to clause	Test method according to clause	Checked characteristics/assemblies/parameters		Real value	Test result	Comments
4.1	Measur.	Manoeuvrability		$\phi$ 161 mm width 26mm Conf.	Pos.	$\phi$ front wheels $\geq 75$ mm outdoor intended rollator: $\phi$ front wheels $\geq 180$ mm width of wheels $\geq 28$ mm
4.2	5.3	Forward-direction stability		18,0° Conf.	Pos.	Stability required $\geq 15^\circ$
4.2	5.4	Backward-direction stability		12,8° Conf.	Pos.	Stability required $\geq 7^\circ$
4.2	5.5	Sideway-direction stability		4,4° Conf.	Pos.	Stability required $\geq 3,5^\circ$
4.2	5.6	Stability – with loaded basket, bag (5kg), drip, oxygen cylinder	forwards	--	N/A	Stability required $\geq 15^\circ$
			backwards	--	N/A	Stability required $\geq 7^\circ$
			side	--	N/A	Stability required $\geq 3,5^\circ$
4.3	V/I	Brakes	Servicing facility during rollator motion with more than 2 wheels	Conf.	Pos.	
	V/I		Parking brakes in rollator with more than 2 wheels and resting seat or intended for outdoor use	Conf.	Pos.	
	5.7.1.1		Brake grip distance (fig. 4, dimension 1)	--	N/A	$\leq 75$ mm
	5.7.1		Running brake effectiveness	Conf.	Pos.	Movement of rollator $\leq 10$ mm in 1 minute
	Measur.		Force to set parking brake	40 N Conf.	Pos.	$\leq 60$ N
	Measur.		Force to release parking brake	30 N Conf.	Pos.	$\leq 40$ N
	5.7.2		Parking brake effectiveness	Conf.	Pos.	Movement of rollator $\leq 10$ mm in 1 minute
	V/I		Possibility to compensate brake wear	Conf.	Pos.	
	V/I		Brake not adversely affected by folding, unfolding or adjusting actions of rollator	Conf.	Pos.	
4.4	Measur. V/I	Handgrip		27 mm/ 32mm Conf.	Pos.	Width of handgrip $\geq 20$ mm and $\leq 50$ mm
4.5	Measur. V/I	Leg section and tip		--	N/A	$\phi$ tip $\geq 35$ mm (tested rollator is equipped in four wheels)
4.6	5.10	Resting seat – static loading durability		Conf.	Pos.	1 minute under load 1,2 x user's weight $\pm 2\%$ (144kg)
4.7	5.12	Mechanical durability	Fatigue test	Conf.	Pos.	200 000 cycles with load. 96kg $\pm 2\%$ , f=1Hz
4.7	5.11		Static loading test	Conf.	Pos.	loading 144kg $\pm 2\%$ , 5sek.
4.8	V/I	Adjusting devices		Conf.	Pos.	
4.9	5.14	Folding mechanism		Conf.	Pos.	
4.11	ISO 10993-1	Materials and finish	Biocompatibility of material with human body	--	N/T	
	V/I		Free of discolouring of skin or clothing in contact with rollator materials	Conf.	Pos.	
	V/I		Burrs, shar edges, projections	Conf.	Pos.	
Marking and labelling of product						
6.2	V/I	a) Maximum user mass		Included	Pos.	
		b) Maximum safe working load (SWL) to be marked on accessories		--	N/A	
		c) Maximum allowed angle between the longitudinal centreline of the handle and the direction of motion, if the handles are sideways adjustable		--	N/A	
		d) Manufacturer's name or trade name and address		Included	Pos.	
		e) Manufacturer's model identification name and/or number		Included	Pos.	
		f) Month and year of manufacture		Included	Pos.	
		g) Maximum extension of the height adjustment, marked on the adjusting members		Included	Pos.	
		h) Maximum width of the rollator		Included	Pos.	
		i) Rollator intended for outdoor/indoor use		Included	Pos.	
4.10	V/I	Warning showing allowed angle between handle axis and direction of movement or physical stop of angle adjusting		--	N/A	

## Contents of user manual and/or assembly manual or clear and indelible marking of product

6.3	V/I	a) Maximum rollator height	--	N/T	
		b) Minimum rollator height	--	N/T	
		c) maintenance and 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 rollator	--	N/T	
		d) Instructions for assembly, adjustment of all kinds, folding and unfolding	--	N/T	
		e) Warnings and advice about precautions relating to safe distances between moving and stationary parts (see EN 12182, Clauses 12 and 13, for guidance)	--	N/T	
		f) Maximum safe working load (SWL) for load carrying accessories such as basket, tray, shopping bag, etc.	--	N/T	
4.10	V/I	Warning in user manual on consequences of such an adjustment of angle between handle longitudinal axis and direction of movement outside allowed value (when handles are adjustable aside).	--	N/A	

## TEST CONDITIONS

Ambient temperature	19°C	Required temperature 21°C ±5°C
Relative humidity of air:	55 %	Not required
<b>Comments:</b>		
All tests performed with maximum height adjustment of rollator.		
All tests performed in the least stable position of self-adjusting wheels.		
Tests performed with handles positioned at their maximum (allowed) angle to the direction of motion (when adjustment is possible).		
Sequence of tests: stability test, static loading test, fatigue test.		
One rollator was tested.		
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.

## CONCLUSIONS:

Testing object **conforms** with requirements of PN-EN ISO 11199-2 : 2005 in scope of mechanical testing ordered by client, excluding biocompatibility tests of material with human body according to PN-EN ISO 10993-1:2010

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