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Date 1.07.2011

TEST REPORT NO. *BR-092/L-113/2011*

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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 9999:2007 : 12 06 06
Type / Model:	<i>Four-wheels rollator – ECONOMIC Rollator</i>	Factory ref. no.: --
Manufacturer:	<i>MOBILEX Sp. z o.o., ul. Radwańska 23/1 90-540 Łódź</i>	Number of specimens: 1
Applicant:	<i>A-Net s.c. 93-469 Łódź, ul. Łaskowice174</i>	
Kind of testing	<i>Mechanical testing for conformity with PN-EN ISO 11199-2 : 2005</i>	
Test started:	<i>23.05.2011</i>	
Test finished:	<i>1.07.2011</i>	

Performed by:

Mirosław Szymański

Checked by:

Ireneusz Czerwiński

Approved by:

KIEROWNIK
LABORATORIUM MECHANICZNEGO

mgr inż. Andrzej Tkaczyk

Special comments / enclosures:

- 1) *labels, service manual*

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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

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CHARACTERISTIC OF PRODUCT

Name : *ECONOMIC Rollator*

Factory ref. no.: --

Maximum permissible user mass: 120 kg

Mass of rollator: - 7,5 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)	490mm	
	Angle between of hand-grip axis and direction of movement (α)	0°	
	Height of rollator (dimension 6)	780mm	min.
		930mm	max.
	Width of rollator (dimension 5)	620mm	an the height of the brakes
	Turning width (dimension 1)	885mm	
Length of rollator (dimension 4)	700mm		
Dimensions of folded rollator		945-1120 x 620 x 330-350 mm	
Fig. 3	Handgrip - diameter	32,3mm	anatomical handgrip
	Handgrip - length	100mm	
Wheels of rollator	Front wheels- quantity	2	castor wheels
	Front wheels - diameter	200 mm	
	Front wheels - width	29,5 mm	
	Front wheels - brake	none	
	Rear wheels - quantity	2	
	Rear wheels - diameter	200 mm	
	Rear wheels - width	29,5 mm	
	Rear wheels - brake	Included	
Tip	Diameter		
	Material	Not any	
	Colour		
Material of rollator (fig. 1)	Front legs	Aluminium	
	Bracing member (no. 8)	Hard	
	Rear legs	plastic of black	
	Height adjusting device (no. 4)	Polyester	
	Handgrip (no 5), Brake elements		



Mobilex Podpórka Czterokołowa „Economic”
do użytku w pomieszczeniach i na dworze

MOBILEX Sp. z o.o.
Duńska 3/5
91-204 Łódź
tel: +48 42 214 29 11
www.mobilex.pl

Max = 120 kg
Max. szer. = 59,5 cm
Dop. obciąż. torby = 5 kg

CE Data prod. [] Nr seryjny. []



Warning!
Be Careful!
Risk of finger cut!



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		Conf. Ø 200mm width - 29,5mm	Pos.	o front wheels ≥75mm outdoor intended rollator: o front wheels ≥180mm of wheels ≥28mm
4.2	5.3	Forward-direction stability		35,0° Conf.	Pos.	Stability required ≥ 10°
4.2	5.4	Backward-direction stability		10,0° Conf.	Pos.	Stability required ≥ 7°
4.2	5.5	Sideway-direction stability		3,8° Conf.	Pos.	Stability required ≥ 3,5°
4.2	5.6	Stability of forward, backward, sideway with accessories, such as drip holder, basket, tray, shopping bag, oxygen cylinder		Conf.	Pos.	
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)	75mm Conf.	Pos.	≤ 75 mm
	5.7.1		Running brake effectiveness	Conf.	Pos.	Movement of rollator ≤ 10 mm in 1 minute
	Measur.		Force to set parking brake	28 N Conf.	Pos.	≤ 60 N
	Measur.		Force to release parking brake	12 N Conf.	Pos.	≤ 40 N
	5.7.2		Parking brake effectiveness	Conf.	Pos.	Movement of rollator ≤ 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		32,3mm Conf.	Pos.	Width of handgrip ≥20mm and ≤50mm
4.5	Measur. V/I	Leg section and tip		-	N/A	o tip ≥35mm (tested rollator is equipped in four wheels)
4.6	5.10	Resting seat – static loading durability		Conf.	Pos.	loading 1440N±2%, 1 min.
4.7	5.12	Mechanical durability	Fatigue test	Conf.	Pos.	200 000 cycles with load. 960N±2%, f=1Hz
4.7	5.11		Static loading test	Conf.	Pos.	loading 1440N±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, sharp 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		Included	Pos.	
		c) Maximum allowed angle between the longitudinal centreline of the handle and the direction of motion, if the handles are sideways adjustable		--	N/A	angle between direction of motion and longitudinal axis of handgrip not adjustable
		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	angle between direction of motion and longitudinal axis of handgrip not adjustable

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

6.3	V/I	a) Maximum rollator height	Included	Pos.	
		b) Minimum rollator height	Included	Pos.	
		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	Included	Pos.	
		d) Instructions for assembly, adjustment of all kinds, folding and unfolding	Included	Pos.	
		e) Warnings and advice about precautions relating to safe distances between moving and stationary parts (see EN 12182:1999, Clauses 12 and 13, for guidance)	Included	Pos.	
		f) Maximum safe working load (SWL) for load carrying accessories such as basket, tray, shopping bag, etc.	Included	Pos.	
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	angle between direction of motion and longitudinal axis of handgrip not adjustable

TEST CONDITIONS

Ambient temperature	22°C	Required temperature 21°C ±5°C
Relative humidity of air:	45%	Not required
<i>Comments:</i>		
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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