



# CENTRE FOR TESTING AND CERTIFICATION - MECH-TEST

## Mechanical Laboratory

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Date 5.01.2016

### TEST REPORT NO. **CBC-148/2015**

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<b>Subject of testing:</b>	<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>	<b>Classification according to</b> PN-EN ISO 9999:2011 : 12 06 06
<b>Type / Model:</b>	<i>Explorer Rollator LARGE</i>	<b>Nr kat.:</b> ROL00E <b>SN:</b> 0001
<b>Manufacturer:</b>	<i>REHASENSE Sp. z o.o. Sulejowska 45 97-300 Piotrków Trybunalski</i>	<b>Number of specimens:</b> 1
<b>Applicant:</b>	<i>A-Net s.c. 93-469 Łódź, ul. Łaskowice174</i>	
<b>Kind of testing</b>	<i>Mechanical testing for conformity with PN-EN ISO 11199-2 : 2005 excluding clause 4.10, 6.2, 6.3</i>	
<b>Test started:</b>	17.12.2015	
<b>Test finished:</b>	5.01.2016	

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.

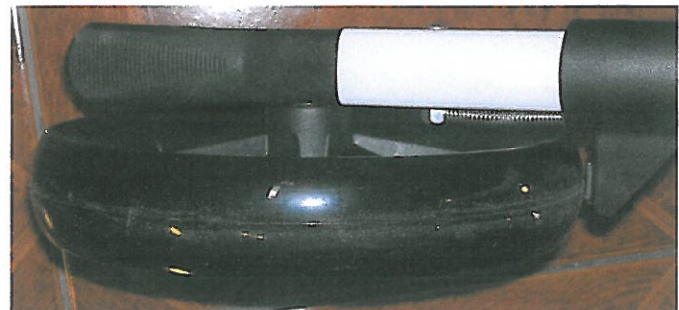
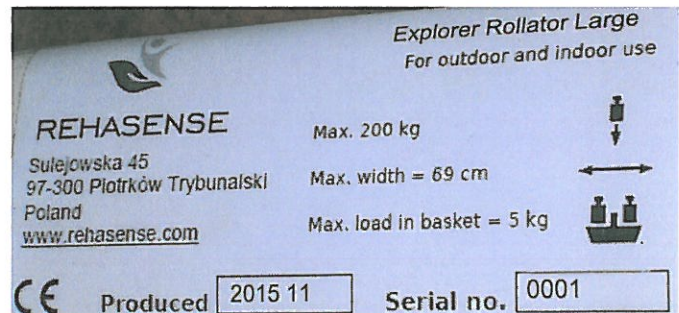
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**CHARACTERISTIC OF PRODUCT**

<b>Name :</b> <i>LARGE</i>	<b>Dimension of rollator:</b> --
<b>Nr. kat:</b> <i>ROL00E</i>	<b>Product code:</b> --
<b>Maximum permissible user mass:</b> <i>200 kg</i>	<b>Mass of rollator:</b> <i>9,365 kg</i>

Description			Comments
Elements/parameters/materials/dimensions			
Dimensions of walking rollator (fig. 2 PN-EN ISO 11199-2)	Distance between handgrips (dimension 2)	<i>560 mm</i>	
	Angle between of handgrip axis and direction of movement ( $\alpha$ )	<i>0°</i>	
	Height of rollator (dimension 6)	<i>907 mm</i>	<i>min.</i>
		<i>1121 mm</i>	<i>max.</i>
	Width of rollator (dimension 5)	<i>680 mm</i>	
	Turning width (dimension 1)	<i>950 mm</i>	
	Length of rollator (dimension 4)	<i>760 mm</i>	
Dimensions of folded rollator (mm)		<i>760 x 909 x 252</i>	
Fig. 3	Handgrip - diameter	<i>37 mm</i>	<i>Anatomical handgrip</i>
	Handgrip - length	<i>120 mm</i>	
Wheels of rollator	Front wheels- quantity	<i>2</i>	<i>castor wheels</i>
	Front wheels - diameter	<i>282 mm</i>	
	Front wheels - width	<i>43 mm</i>	
	Front wheels - brake	<i>none</i>	
	Rear wheels - quantity	<i>2</i>	
	Rear wheels - diameter	<i>232 mm</i>	
	Rear wheels - width	<i>44 mm</i>	
	Rear wheels - brake	<i>Included</i>	
Tip	Diameter		
	Material	<i>Not any</i>	
	Colour		
Material of rollator (fig. 1)	Front legs	<i>Aluminum,</i>	
	Bracing member (no. 8)	<i>steel, plastic,</i>	
	Rear legs	<i>Bolts, nuts</i>	
	Height adjusting device (no. 4)		
	Handgrip (no 5), Brake elements	<i>plastic</i>	



## 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		$\varnothing$ 282 mm width 41 mm Conf.	Pos.	<i>ø front wheels <math>\geq</math>75mm outdoor intended rollator: ø front wheels <math>\geq</math>180mm width of wheels <math>\geq</math>22mm</i>
4.2	5.3	Forward-direction stability		19,5 <sup>0</sup> Conf.	Pos.	Stability required $\geq$ 15°
4.2	5.4	Backward-direction stability		10,5 <sup>0</sup> Conf.	Pos.	Stability required $\geq$ 7°
4.2	5.5	Sideway-direction stability		4,1 <sup>0</sup> Conf.	Pos.	Stability required $\geq$ 3,5°
4.2	5.6	Stability – with loaded basket, bag, drip, oxygen cylinder	forwards	18,0 <sup>0</sup> Conf.	Pos.	Stability required $\geq$ 15°
			backwards	14,8 <sup>0</sup> Conf.	Pos.	Stability required $\geq$ 7°
			side	5,5 <sup>0</sup> Conf.	Pos.	Stability required $\geq$ 3,5°
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)	65 mm Conf.	Pos.	$\leq$ 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	30N Conf.	Pos.	$\leq$ 60 N
	Measur.		Force to release parking brake	10N 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		37 mm Conf.	Pos.	Width of handgrip $\geq$ 20mm and $\leq$ 50mm
4.5	Measur. V/I	Leg section and tip		--	N/A	$\varnothing$ tip $\geq$ 35mm (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% (240kg)
4.7	5.12	Mechanical durability	Fatigue test	Conf.	Pos.	200 000 cycles with load. 160kg $\pm$ 2%, f=1Hz
4.7	5.11		Static loading test	Conf.	Pos.	loading 240kg $\pm$ 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		--	N/T	
		b) Maximum safe working load (SWL) to be marked on accessories		--	N/T	
		c) Maximum allowed angle between the longitudinal centreline of the handle and the direction of motion, if the handles are sideways adjustable		--	N/T	
		d) Manufacturer's name or trade name and address		--	N/T	
		e) Manufacturer's model identification name and/or number		--	N/T	
		f) Month and year of manufacture		--	N/T	
		g) Maximum extension of the height adjustment, marked on the adjusting members		--	N/T	
		h) Maximum width of the rollator		--	N/T	
		i) Rollator intended for outdoor/indoor use		--	N/T	
4.10	V/I	Warning showing allowed angle between handle axis and direction of movement or physical stop of angle adjusting		--	N/T	

## 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/T	

## 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.

NOTE 1: Deformation – 58 mm, elastic deformation – 54 mm, permanent deformation – 4 mm.

## CONCLUSIONS:

Testing object **conforms** with requirements of PN-EN ISO 11199-2 : 2005, excluding clause 4.10, 6.2, 6.3 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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