



# CENTRE FOR TESTING AND CERTIFICATION - MECH-TEST

## Mechanical Laboratory

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Date 27.11.2017

### TEST REPORT NO. **CBC-198/2017**

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Subject of testing:	<i>Walking tables</i>	Classification according to PN-EN ISO 9999:2011 :	12 06 12
Type / Model:	<i>NAVIGATOR AIR</i>	Art no.:	<i>ARWHL600</i>
Manufacturer:	<i>REHASENSE Sp. z o.o. Sulejowska 45 97-300 Piotrków Tryb.</i>	SN:	<i>(01)05901912639355 (11)171108(21)0001</i>
Applicant:	<i>A-Net s.c. 93-469 Łódź, ul. Łaskowice174</i>	Number of specimens:	<i>1</i>
Kind of testing	<i>Testing scope according to application of Client Mechanical testing for conformity with PN-EN ISO 11199-3:2008</i>		
Test started:	<i>22.11.2017</i>		
Test finished:	<i>27.11.2017</i>		

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 his structure, material or technology  
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CHARACTERISTIC OF PRODUCT

Name : <b>NAVIGATOR AIR</b>	Dimension of rollator: <b>—</b>
Art no.: <b>ARWHL600</b>	SN: <b>(01)05901912639355(11)171108(21)0001</b>
Maximum permissible user mass: <b>200 kg</b>	Mass of rollator: <b>12,36 kg</b>

Description		Comments	
Elements/parameters/materials/dimensions			
Dimensions of walking rollator (fig. 2 PN-EN ISO 11199-2)	Distance between handgrips (dimension 2)	520 mm	
	Angle between of handgrip axis and direction of movement ( $\alpha$ )	0°	
	Height of rollator (dimension 6)	1070 mm	min.
		1200mm	max.
	Support height (dimension 5)	965 mm	min.
		1095 mm	max.
	Width of rollator (max.) (dimension 4)	705 mm	
Turning width (dimension 1)	960 mm		
Length of rollator (max.) (dimension 3)	765 mm		
Dimensions of folded rollator (mm)		955 x 765 x 330	
Fig. 3	Handgrip - diameter	31 mm	
	Handgrip - length	100 mm	
Wheels of rollator	Front wheels- quantity	2	castor wheels
	Front wheels - diameter	281 mm	
	Front wheels - width	43/42 mm	
	Front wheels - brake	Not any	
	Rear wheels - quantity	2	castor wheels
	Rear wheels - diameter	231 mm	
	Rear wheels - width	43/42 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	



NAVIGATOR AIR

2017-11-08

ARWHL600

200 KG

5 Kg

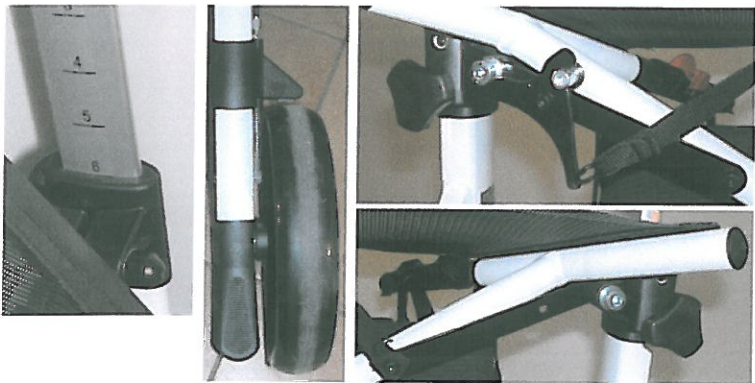
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REHASENSE Sp. z o.o.  
Sulejowska 45  
97-300 Piotrków Tryb.  
Poland

NAVIGATOR Air

01912 639355



## RESULT OF TESTS ACCORDING TO PN-EN ISO 11199-3:2008

Requirements according to clause	Test method according to clause	Checked characteristics/assemblies/parameters	Real value	Test result	Comments	
4.1	<b>Stability</b>					
	5.4	product used only in premises	Forward-direction stability	--	N/A	$\geq 10,0^{\circ}$
	5.5		Backward-direction stability	--	N/A	$\geq 4,0^{\circ}$
	5.6		Sideway-direction stability	--	N/A	$\geq 3,5^{\circ}$
	5.4	product also used outside	Forward-direction stability	15,0° Conf.	Pos.	$\geq 15,0^{\circ}$
	5.5		Backward-direction stability	12,9° Conf.	Pos.	$\geq 7,0^{\circ}$
5.6	Sideway-direction stability		5,5° Conf.	Pos.	$\geq 4,5^{\circ}$	
4.2	<b>Brakes</b>					
	V/I	Ease service of running brakes while driving in the products used outside and equipped with more than 2 wheels	Conf.	Pos.		
	V/I	The presence of the parking brakes in all tables for walking and the simplicity of their handling	Conf.	Pos.		
	V/I	Adjustable brakes if their performance deteriorates	Conf.	Pos.		
4.2	Meas., 5.8.2.2	Brake grip distance (fig. 8)	72mm Conf.	Pos.	$\leq 75 \text{ mm}$	
	5.8.2.3	Running brake effectiveness	Conf.	Pos.	Movement of rollator $\leq 10 \text{ mm in 1 minute}$	
	Meas., 5.8.3.2	Force to set parking brake	30 N Conf.	Pos.	$\leq 60 \text{ N manual}$	
	Meas., 5.8.3.2	Force to release parking brake	15 N Conf.	Pos.	$\leq 40 \text{ N manual}$	
	5.8.3.3	Parking brake effectiveness, test to forward	Conf.	Pos.		
	5.8.3.4	Parking brake effectiveness, test to reverse	Conf.	Pos.		
	V/I	Brake not adversely affected by folding, unfolding or adjusting actions of mechanisms	Conf.	Pos.		
	V/I	Adjustable brake without the use of tools, where adjusting other mechanisms of the product forces the re-adjustment of the brakes	--	N/A		
4.3	<b>Mechanical durability</b>					
	5.9.2	Static loading resistance of resting seat	Conf.	Pos.	loading - 1,2 x mass of user (240kg.) 1mm.	
	5.10	Static loading resistance of product	Conf.	Pos.	loading - 1,5 x mass of user, 5 s	
	5.11	Fatigue loading resistance of product	Conf.	Pos.	loading - 0,8 x mass of user, 200 000 cycles, $f \leq 1 \text{ Hz}$	
4.4	<b>Manoeuvrability</b>					
	Measur.	Diameter of wheels (front/rear)	281/231 mm Conf.	Pos.	$\geq 75 \text{ mm}$	
	Measur.	Diameter of wheels of the product used outside (front/rear)	281/231 mm Conf.	Pos.	$\geq 180 \text{ mm}$	
	Measur.	Width of wheels (front/rear)	42 mm Conf.	Pos.	$\geq 22 \text{ mm, 5 mm above ground}$	
4.5	<b>Handgrip</b>					
	Measur.	Handgrip - diameter	31mm Conf.	Pos.	$\geq 20 \text{ mm } i \leq 50 \text{ mm}$	
	V/I	Confidence to handle mounting for handgrip	Conf.	Pos.		
	V/I	Ease to change or ease of cleaning	Conf.	Pos.		
4.6	<b>Leg section and tip</b>					
	V/I	Puncture resistant tip	--	N/A		
	V/I	Convertibility of the tip	--	N/A		
	V/I	No staining of the ground	--	N/A		
	Measur.	Diameter of the tip	--	N/A	$\geq 35 \text{ mm}$	
	V/I	Safe clamping of the tip	--	N/A		
4.7	<b>Adjusting devices</b>					
	V/I	Confidence of mounting of adjustable handles	Conf.	Pos.		
	V/I	Marking the maximum allowable extension of adjusting devices	Conf.	Pos.		
	V/I	Reliability of the activity of adjusting mechanisms after the fatigue test	Conf.	Pos.		
	V/I	Locking of folding tables for walking in a working position	Conf.	Pos.		
4.8	<b>Resting seat</b>					
	5.9	Resting seat - static loading durability	Conf.	Pos.	loading 240 kg, 1 min.	
4.9	<b>Materials and finish</b>					
	ISO 10993-1	Biocompatibility of material with human body	--	N/T		
	V/I	Free of discolouring of skin or clothing in contact with product materials	Conf.	Pos.		
	V/I	No burrs, sharp edges and protrusions	Conf.	Pos.		

Requirement s according to clause	Test method according to clause	Checked characteristics/assemblies/parameters	Real value	Test result	Comments	
4.10	6.2, V/I	<b>Marking and labelling of product</b>				
		<b>Information to be included on the product and / or accessories:</b>				
		- Maximum permissible user weight	Included	Pos.		
		- Maximum load of accessories	Included	Pos.		
		- Manufacturer's name or trade name and address	Included	Pos.		
		- The name and / or id. number of the product	Included	Pos.		
		- Month and year of production	Included	Pos.		
		- Marking of maximum extension of the height adjustment	Included	Pos.		
		- Max. limit of range adjustment	Included	Pos.		
4.10	6.3, V/I	<b>The content of the documentation:</b>				
		- Maximum supporting height	Included	Pos.		
		- Minimum supporting height	Included	Pos.		
		- Maximum width of the turning	Included	Pos.		
		- Maintenance instructions including brake adjustment as a result of wear and the required terms of control	Included	Pos.		
		- manual cleaning	Included	Pos.		
		- Instructions for assembly, adjustment of all kinds, folding and unfolding	Included	Pos.		
		- Warnings and advice about precautions relating to safe distances between moving and stationary parts (see EN 12182. Clauses 12 and 13)	Included	Pos.		

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

### TEST CONDITIONS

Ambient temperature	21°C	Required temperature 21°C ±5°C
Relative humidity of air Humidity	60%	N/R
<b>Comments:</b>		
All tests were performed at maximum height of walking stick.		
All tests performed in the least stable position of self-adjusting wheels.		
Sequence of tests: stability test, static loading test, fatigue test.		
One verticalizer 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. Conformity assessment of product according to standard requirements refer to the scope of mechanical ordered by client*

*NOTE 2: During visual inspection before testing any visible defects that can have an effect on test results were not stated.*

*NOTE 3: Sample/object for testing was delivered to the Laboratory by the Orderer.*

### CONCLUSIONS:

*Test object conforms with requirements of PN-EN ISO 11199-3:2008 within mechanical testing ordered by client excluding testing of material biocompatibility with human body according to PN-EN ISO 10993-1:2010.*

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