

Test Report

Report No.: 191926-2



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Item: Model: **Navigator - Indoor**

Type:	Walking tables - ISO Classification 12.06.12				
SWL	150kg				
Serial no.:	05901912632714				
Materials:	Metal and plastic				

Sampling: The test material was sampled by the client and received at the Danish Technological Institute 24-4-2023.

Method: **ISO 11199-3:2005** Walking aids manipulated by both arms - Requirements and test methods – Part 3: Walking tables

The testing was carried out under normal indoor conditions.

Period: The testing was carried out from 24-04-2023 to 22-05-2023.

Result: Model **Navigator - Indoor** meets the requirements of ISO 11199-3:2005.

Individual results appear from Appendix 1.

Storage: The test material will be destroyed after 1 month, unless otherwise agreed.

Terms: Accredited testing was carried out in compliance with international requirements (EN/ISO/IEC 17025:2005) and in compliance with Danish Technological Institute's (DTI) General Terms and Conditions regarding Commissioned Work accepted by Danish Technological Institute. The test results apply to the tested products only. This report may be quoted in extract only if the laboratory has granted its written consent.

Date/place: 22-05-2023, Danish Technological Institute, Wood and Biomaterials, Taastrup

Signature: Test responsible

Co-signatory



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Requirements

		Result
4.1	<p>Stability</p> <p>When tested according to the forward stability test (see 5.4), the angle of the plane at the point of walking table tilting shall be not less than 10.0° from the horizontal for walking tables intended by the manufacturer for indoor use and 15.0° for those intended for outdoor use.</p> <p>When tested according to the backward stability test (see 5.5), the angle of the plane at the point of walking table tilting shall be not less than 4.0° from the horizontal for walking tables intended by the manufacturer for indoor use and 7.0° for those intended for outdoor use.</p> <p>When tested according to the sideways stability test (see 5.6), the angle of the plane at the point of walking table tilting shall be not less than 3.5° from the horizontal for walking tables intended by the manufacturer for indoor use and 4.5° for those intended for outdoor use.</p>	Passed

Tippling angles are measured as indicated in the table below with a static force of 250 N, plus eventually extra weight depending on accessory, mentioned in table.	Tipangle
5.3 Forward-direction stability test:	
With accessory item: Basket with 5 kg	10,0°
5.4 Backward-direction stability test:	
With accessory item: Basket with 5 kg	16,0°
5.5 Sideway-direction stability test, right:	
With accessory item: Basket with 5 kg	4,7°
5.5 Sideway-direction stability test, left:	
With accessory item: Basket with 5 kg	4,7°

		Result
4.2	<p>Brakes</p> <p>All walking tables with more than two wheels and intended by the manufacturer for outdoor use shall have running brakes which are easy to operate by the user when the walking table is in motion. <i>Note 1: Hand-operated brakes and pressure brakes are examples of running brakes.</i></p> <p>All walking tables shall have parking brakes, which are easy to operate by the user. They may be integrated with the running brakes. <i>Note 2: Rubber tips are accepted as parking brakes.</i></p> <p>If the efficiency of the brakes deteriorates by wear, in order to remain effective they shall have means of adjustment.</p> <p>Max. grip distance for operating running brakes shall be not greater than 75 mm measured according to 5.8.2.2 (see Figure 8).</p> <p>When tested according to the running brake test (see 5.8.2), the walking table shall not move more than 10 mm in 1 min.</p>	Passed

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		Result
	<p>Max. force to apply and release parking brakes shall not exceed 60 N pushing force or 40 N pulling force.</p> <p>When tested according to the parking brake test (see 5.8.3) the walking table shall not move more than 10 mm in 1 min.</p> <p>Brake performance shall not be adversely affected by folding, unfolding or adjusting actions. If re-adjustment of the brakes is necessary following an adjusting action of the walking table (e.g. height adjustment), tools shall not be required.</p>	Passed
4.3	<p>Mechanical durability</p> <p>When tested according to the static strength test (see 5.10) no part of the walking table shall crack or break and the permanent set of the rollator height shall not exceed 1 %.</p> <p>When tested according to the fatigue test (see 5.11), no part of the walking table shall crack or break.</p>	Passed
4.4	<p>Manoeuvrability</p> <p>The wheel diameter shall be not less than 75 mm.</p> <p>The wheel diameter of walking tables manufactured for outdoor use shall be not less than 180 mm.</p> <p>The wheel width of walking tables manufactured for outdoor use shall be not less than 22 mm as defined in 3.18</p>	Passed
4.5	<p>Handgrip</p> <p>The handgrip width shall be not less than 20 mm and not more than 50 mm.</p> <p>Note: The requirement is not applicable to anatomic handgrips.</p> <p>The handgrip shall be securely fixed to the handle of the walking table as judged by the inspector.</p> <p>The handgrip shall be replaceable or easy to clean.</p>	Passed
4.6	<p>Leg section and tip</p> <p>Where there is no wheel, the leg section shall end in a tip of a design that will prevent the leg section from piercing through it when the walking table is used as intended by the manufacturer.</p> <p>Where there is no wheel, the tip shall be replaceable.</p> <p>Where there is no wheel, the tip shall not cause discolouring of the walking surface, as verified by visual inspection.</p> <p>That part of the tip that is in contact with the walking surface shall have a min. area at least covering a circle diameter of 35 mm. Compliance shall be verified by measurement.</p> <p>When inspected, the rubber tip shall be securely fixed to the leg of the walking table as judged by the inspector.</p>	N/A

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		Result
4.7	<p>Adjusting devices The handles may be adjustable but shall be securely fixed when in use, as verified by inspection.</p> <p>Each of the height adjustment devices shall be clearly marked with its max. permissible elongation.</p> <p>After the fatigue test (see 5.11), the adjustment/folding mechanisms shall operate as intended by the manufacturer.</p> <p>Folding walking tables shall lock into working position when unfolded.</p>	Passed
4.8	<p>Resting seat When tested according to 5.9, no part of the walking table shall crack or break.</p>	Passed
4.9	<p>Materials and finish Walking table materials, which come into contact with the human body during intended use, handling, transportation and storage, shall be assessed for biocompatibility using the guidance given in ISO 10993-1.</p> <p>The walking table materials shall not cause discolouring of skin or clothing when the walking table is used as intended by the manufacturer.</p> <p>All parts of the walking table shall be free from burrs, sharp edges or projections that could cause damage to clothing or discomfort to the end user and attendant.</p>	N/T

Loading and deformations are made as indicated in the table below: SWL = 150 kg

Loading	Deformation before load	Deformation after load
150 % of SWL (min. 420 N) for 5 second, applied over a min. period of 2 seconds.	1252	1250

Fatigue test		
A cyclic (max. 1 Hz.) force of 81 % of SWL (min. 280 N) for 200.000 times, with wheels travelling with min. 0,4m/loading cycle. If failure occurs, record this and the number of cycles.	F(1) = 0.20 Hz F(2) = 0.20 Hz	V(1)/F(1) = 1.6 m V(2)/F(2) = 1.6 m
	V(1) = 0.33 m/s V(2) = 0.33 m/s	

Note: X(1) means initial values, X(2) means values at the end of testing

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		Result
5.12	Final inspection When all tests have been completed, inspect the walking table and its mechanisms and functions for satisfactory operation as specified by the manufacturer.	Passed
6.2	Information supplied by the manufacturer Each walking table shall be clearly and indelibly marked with the following: a.) Max. permissible user mass b.) max. safe working load (SWL) to be marked on accessories c.) manufacturer's name or trade name and address d.) manufacturer's model identification name and/or number e.) month and year of manufacture f.) max. extension of the height adjustment, marked on the adjusting member g.) max. limits of its adjustment ranges marked on the adjusting members or mechanism h.) max. width of the walking table i.) whether or not the walking table is designed for indoor or outdoor use, according to 4.1 and 4.4	Passed
6.3	Documentation The following information shall be contained in the instructions for use and/or assembly, or clearly and indelibly marked on the product:	Passed
	a.) max. supporting height b.) min. supporting height c.) max. walking table turning width d.) maintenance instructions including adjustments of brakes for wear and required inspection intervals e.) 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 the construction of the walking table f.) instructions for assembly, adjustment of all kinds, folding and unfolding g.) warnings and advice about precautions relating to safe distances between moving and stationary parts if applicable (see 12 and 13 in EN 12182:1999 for guidance). <i>Note 1: Most countries require that information be in one or more of their official languages.</i> <i>Note 2: The guidance document ISO/IEC Guide 37 will be of help when preparing this information.</i> <i>Note 3: Manufacturers are recommended to present their information in separate parts that cover use, prescription, technical and/or paramedical aspects.</i>	Passed

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