

Test Report

No.: TJHL250100011101MD

Date: FEB.24, 2025

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ZHENJIANG U-NURSE MEDICAL EQUIPMENT CO., LTD
BUILDING 2, CENTRAL R&D ZONE, SCIENCE AND TECHNOLOG INDUSTRIAL PARK,
DEVELOPMENT ZONE, NO 99, JING 15TH ROAD, NEW DISTRICT, ZHENJIANG CITY, JIANGSU
PROVINCE, CHINA

The following sample(s) was/were submitted and identified by the client as:

Sample Description : ROLLATOR
Style/Item No. : UN3007
Manufacture : ZHENJIANG U-NURSE MEDICAL EQUIPMENT CO., LTD
Country of Origin : CHINA

Sample Receiving Date : FEB.11, 2025
Testing Period : FEB.11, 2025 TO FEB.24, 2025
Test Performed : SELECTED TEST(S) AS REQUESTED BY APPLICANT
Test Requested : PLEASE REFER TO THE RESULT SUMMARY.
Test Result(s) : FOR FURTHER DETAILS, PLEASE REFER TO THE
FOLLOWING PAGE(S)
Test Summary :

Test Requested	Conclusion
ISO 11199-2:2021+ AMD 1:2024 CLAUSE 6.6.2, CLAUSE 16 AND CLAUSE 17	PASS

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.

Michael

Michael Wen
Authorized Signatory



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Test Conducted:

ISO 11199-2:2021+ AMD 1:2024 Assistive products for walking manipulated by both arms — Requirements and test methods —Part 2: Rollators

Nos. of Specimen : 1

User mass : 150 kg

Test Result : Details shown as following table

Clause	Test Item	Test Result
6.6.2	Brake effectiveness	
6.6.2.1	Requirements This requirement applies to both, parking brakes and running brakes. The rollator shall not move more than 10 mm in 1 min if the running brake or the parking brake is activated. The maximum force to apply and release the brakes shall not exceed — 60 N for pushing forces, and — 40 N for pulling forces. Operating device acts on both wheels (central brakes), each of the brake-operating devices shall be tested separately.	Pass
6.6.2.2	Test method Place the rollator with its wheels on the test plane specified in 4.6. Position the rollator so that a line through the axles of the wheels is parallel $\pm 3^\circ$ to the axis of tip of the test plane. Apply the loading force vertically to the rollator at the midpoint of the line joining the front handgrip reference points on the two handgrips. For a user mass of 100 kg, the loading force shall be $500 \text{ N} \pm 10 \text{ N}$. If the maximum user mass specified for the rollator deviates from a user mass of 100 kg, the loading force shall be 5,0 N per kilogram of the maximum user mass $\pm 2\%$. The load shall be no less than $175 \text{ N} \pm 3,5 \text{ N}$. Activate the brakes by applying the force specified in Table 3 to each of the brake-operating devices along the grip distance. Tilt the test plane to an angle of $6^\circ +0,5/-0,0$. Remove the stoppers. The friction between the braking wheels and the top surface of the plane shall be such that the wheels do not slide. Leave the rollator for 1 min. If the wheels turn, the rollator shall not move more than 10 mm in 1 min. Repeat the procedure with the rollator facing uphill as in Figure 8.	Conducted
16	Static strength	
16.1	Static strength of resting seat	
16.1.1	General requirement The rollator shall be tested in the most adverse condition as described in Clause 5.	Informative
16.1.2	Requirements for static strength of resting seat No part of the rollator shall crack or break.	Pass
16.1.3	Test method for static strength of resting seat Set the rollator stationary on a flat horizontal test floor. When equipped with a parking brake, apply the brake and hold it. Place the seat loading pad (see 4.9) on the seat so that the midpoint of the	Conducted



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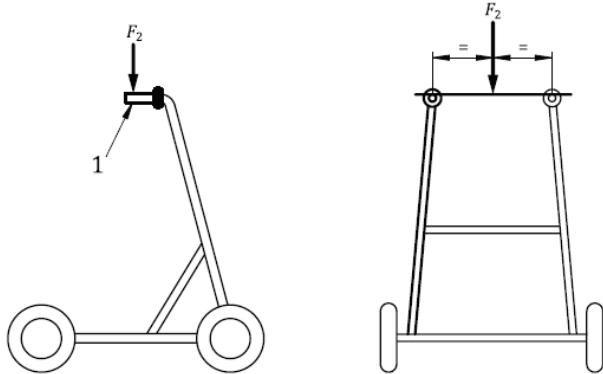
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Clause	Test Item	Test Result
	base of the loading pad is vertically aligned with the centre of the resting seat. Gradually apply a vertical loading force of $1200\text{ N} \pm 24\text{ N}$, including the force exerted by the mass of the loading pad to the centre of the resting seat. If the maximum user mass specified for the rollator deviates from a user mass of 100 kg, a force of 12,0 N per kilogram of maximum user mass $\pm 2\%$ shall be applied. The load shall be no less than $420\text{ N} \pm 8,4\text{ N}$. Leave the resting seat loaded for a minimum period of 1 min.	
16.2	Static strength of the rollator	
16.2.1	General The rollator shall be tested in the most adverse condition as described in Clause 5.	Informative
16.2.2	Requirements for static strength of the rollator No part of the rollator shall crack or break and the permanent set of the rollator height shall not exceed 1 %.	Pass
16.2.3	Test method for static strength of the rollator Measure the rollator height within an accuracy of measurement of $\pm 2\text{ mm}$ before and after performing the loading test. The rollator height reduction shall be recorded. The loading force shall be applied vertically to the rollator as shown in Figure 10. The loading line shall pass through the midpoint of the line joining the rear handgrip reference points of the two handgrips. A loading force of $1\,200\text{ N} \pm 24\text{ N}$ shall be applied for a user mass of 100 kg. If the maximum user mass specified for the rollator deviates from a user mass of 100 kg, a force of 12,0 N per kilogram of user mass $\pm 2\%$ shall be applied. The load shall be no less than $420\text{ N} \pm 8,4\text{ N}$. The loading force shall be gradually applied over a minimum period of 2 s up to maximum force. This maximum force shall be maintained for a minimum of 1 min.	Conducted
	 Key 1 rear handgrip reference points F2 loading force Figure 10 — Loading geometry for static strength test	
16.3	Strength of backrest	
16.3.1	General The rollator shall be tested in the most adverse condition as described in Clause 5.	Informative



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Clause	Test Item	Test Result
16.3.2	Requirement for strength of backrest No part of the rollator shall crack or break.	Pass
16.3.3	Test method for strength of backrest Set the rollator stationary on a flat horizontal test plane. The rear wheels of the rollator shall be secured in such a way that the rollator does not move when the backrest is statically loaded. The static force shall be applied 90° to the backrest surface horizontally. The static force shall gradually be applied to the centre of the backrest, in the worst-case position during normal use (see Figure 11). The force is applied in a 50 mm wide region in the middle of the backrest. For example, a 50 mm wide lashing strap as described in EN 12195-2. The force shall be 4,5 N/kg of the maximum user weight $\pm 2\%$. The loading force shall not be less than 450 N ± 9 N. The test force is gradually increased over a minimum period of 2 s until reaching the maximum value. This maximum force shall be maintained for at least 60 seconds. This test shall be repeated 10 times. Key 1 fixation point F static force 3 Figure 11 — Loading geometry for backrest strength test	Conducted
17	General requirement The rollator shall be tested in the least stable position as described in <u>Clause 5</u> .	Informative
17.1	Requirement for durability No part of the rollator shall crack or break and all adjustments and locking devices shall work as intended.	Pass
17.2	Test method for durability The fixation of the rollator shall be arranged in a way to not hinder the free deformation of the frame under the load. The loading force shall be applied vertically to the rollator as shown in Figure 12. The loading line shall pass through the midpoint of the line joining the rear handgrip reference points of the two handgrips. The rollator shall be placed with its wheels on a surface travelling at a speed not less than 0,4 m/loading cycle. If the rollator is equipped with pressure brakes, the test shall be performed on a rigid floor instead of on the travelling surface.	Conducted



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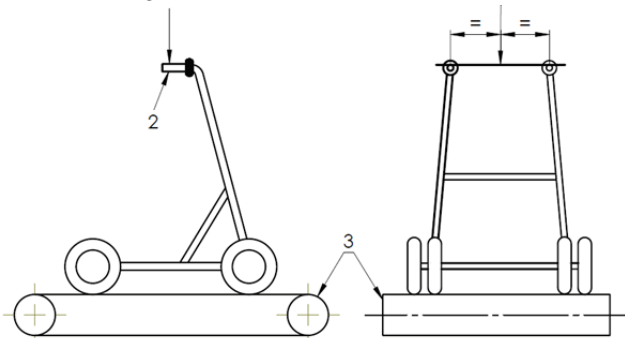
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Clause	Test Item	Test Result
	For the durability test either the double-drum test equipment or the running belt test equipment can be used. NOTE An example of set-up of the fatigue test for a rollator with four wheels is shown in Figure 12. If the travelling surface is a cylinder, the diameter shall be equal to or greater than $250 \text{ mm} \pm 25 \text{ mm}$ and the positioning of any of the rollator wheels shall at all times during the test be such that the vertical line through the wheel centre does not deviate from the vertical plane through the centre of the cylinder by more than $\pm 5 \text{ mm}$.  Key 1 rear handgrip reference points 2 test surface 3 F4 force 4 force Figure 12 — Durability test for a rollator with four wheels A cyclic force of $800 \text{ N} \pm 16 \text{ N}$ shall be applied for a user mass of 100 kg. If the maximum user mass specified for the rollator deviates from a user mass of 100 kg, apply a force of 8,0 N per kilogram of maximum user mass $\pm 2 \%$. The loading force shall be no less than $280 \text{ N} \pm 5,6 \text{ N}$. The waveform of the cyclic loading force shall be of a sinusoidal or smooth kind without exaggerating pulses. The frequency of the cyclic loading shall not exceed 1 Hz. The number of cycles shall be 200 000.	

Notes : # 1- All related requirement of clause 6.1 is not conducted.

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