

ISO 11199-2:2021 (E)

Assistive products for walking manipulated by both arms — Requirements and test methods — Part 2: Rollators

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Apparatus
5	Test conditions
6	General requirements and test methods
6.1	Risk analysis
6.2	Rollators that can be dismantled
6.3	Fasteners
6.4	User mass/load limit
6.5	Structure requirements
6.6	Brakes
6.6.1	General requirements
6.6.2	Brake effectiveness
6.6.2.1	Requirements
6.6.2.2	Test method
6.6.3	Durability of brakes
6.6.3.1	Requirements
6.6.3.2	Test methods
6.7	Handgrip
7	Materials
7.1	General
7.2	Flammability
7.2.1	General
7.2.2	Upholstered parts
7.3	Biocompatibility and toxicity
7.4	Infection and microbiological contamination
7.4.1	General
7.4.2	Cleaning and disinfection
7.5	Resistance to corrosion
8	Ingress of liquids
9	Temperatures of parts that come in contact with human skin
10	Safety of moving parts
10.1	Squeezing
10.2	Mechanical wear
11	Prevention of traps for parts of the human body
11.1	Holes and clearances
11.2	V-shape openings

- 12 Folding, adjusting and locking mechanisms
 - 12.1 General
 - 12.2 Folding mechanisms
 - 12.3 Locking mechanisms
- 13 Carrying handles
 - 13.1 General
 - 13.2 Requirements
 - 13.3 Test method
- 14 Surfaces, corners and edges
- 15 Static stability
 - 15.1 Requirements for static stability
 - 15.2 Test method for static stability
 - 15.2.1 Forward-direction static stability test
 - 15.2.2 Rearward-direction static stability test
 - 15.2.3 Sideway-direction static stability test
 - 15.2.4 Accessory equipment static stability test
- 16 Static strength
 - 16.1 Static strength of resting seat
 - 16.1.1 General
 - 16.1.2 Requirements for static strength of resting seat
 - 16.1.3 Test method for static strength of resting seat
 - 16.2 Static strength of the rollator
 - 16.2.1 General
 - 16.2.2 Requirements for static strength of the rollator
 - 16.2.3 Test method for static strength of the rollator
 - 16.3 Strength of backrest
 - 16.3.1 General
 - 16.3.2 Requirement for strength of backrest
 - 16.3.3 Test method for strength of backrest
- 17 Durability test
 - 17.1 Requirement for durability
 - 17.2 Test method for durability
- 18 Ergonomic principles
- 19 Packaging
- 20 Information supplied by the manufacturer
 - 20.1 General
 - 20.2 Information marked on the product
 - 20.3 Instruction manual
 - 20.4 Test report
- Annex A (informative) Consideration items for hazards when designing the products
 - A.1 General
 - A.2 Hazards and their factors that are supposed on general assistive products
 - A.3 Hazards from ergonomic factors of various users
 - A.4 Hazards originated from mechanical damage, insufficient maintenance and/or aging
- Annex B (informative) General recommendations