BS EN ISO 11199-2:2021+A1:2024

BSI Standards Publication

Assistive products for walking manipulated by both arms — Requirements and test methods

Part 2: Rollators

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National foreword

This British Standard is the UK implementation of EN ISO 11199-2:2021+A1:2024. It is identical to ISO 11199-2:2021, incorporating amendment 1:2024. It supersedes BS EN ISO 11199-2:2021, which is withdrawn.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to ISO text carry the number of the ISO amendment. For example, text altered by ISO amendment 1 is indicated by A1 A1.

The UK participation in its preparation was entrusted to Technical Committee CH/173, Assistive products for persons with disability.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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EN ISO 11199-2:2021 CA1:2024

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Assistive products for walking manipulated by both arms - Requirements and test methods - Part 2: Rollators (ISO 11199-2:2021)

Produits d'assistance à la marche manipulés avec les deux bras - Exigences et méthodes d'essai - Partie 2: Déambulateurs (ISO 11199-2:2021)

Technische Hilfen zum Gehen für beidarmige Handhabung - Anforderungen und Prüfverfahren - Teil 2: Rollatoren (ISO 11199-2:2021)

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European foreword

This document (EN ISO 11199-2:2021) has been prepared by Technical Committee ISO/TC 173 "Assistive products" in collaboration with Technical Committee CEN/TC 293 “Assistive products and accessibility” the secretariat of which is held by SIS.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2022, and conflicting national standards shall be withdrawn at the latest by January 2022.

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The text of ISO 11199-2:2021 has been approved by CEN as EN ISO 11199-2:2021 without any modification.

European foreword to Amendment 1

This document (EN ISO 11199-2:2021/A1:2024) has been prepared by Technical Committee ISO/TC 173 "Assistive products" in collaboration with Technical Committee CEN/TC 293 “Assistive products and accessibility” the secretariat of which is held by SIS.

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Endorsement notice

The text of ISO 11199-2:2021/Amd 1:2024 has been approved by CEN as EN ISO 11199-2:2021/A1:2024 without any modification.

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 173, Assistive products, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 293, Assistive products and accessibility, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 11199-2:2005), which has been technically revised.

The main changes compared to the previous edition are as follows:

— 3.1 was changed to be in accordance with ISO 9999;

— subclause 16.3 on strength of backrest was added;

— Clause 6 on general requirements for assistive products was added.

A list of all parts in the ISO 11199 series can be found on the ISO website.

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Introduction

A rollator can be used when a person needs assistance when walking. The rollator can provide stability when walking and standing and reduce the risk of falling. Rollators are designed to support the user inside a frame to carry the user's weight. Rollators can be equipped with a resting seat, backrest and/or shopping bag. Rollators are not intended to be moved with the user on the seat like a wheelchair. The seat is provided as a resting seat with brakes engaged.

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Assistive products for walking manipulated by both arms — Requirements and test methods —

Part 2: Rollators

1 Scope

This document specifies requirements and test methods of rollators being used as assistive products for walking with wheels, manipulated by both arms, without accessories, unless specified in the particular test procedure. This document also gives requirements relating to safety, ergonomics, performance and information supplied by the manufacturer including marking and labelling.

The requirements and tests are based on every-day use of rollators as assistive products for walking for a maximum user mass as specified by the manufacturer. This document includes rollators specified for a user mass of no less than 35 kg.

This document is not applicable to rollators with horizontal forearm supports, classified as walking tables, for which ISO 11199-3 is applicable.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 8191-2, *Furniture — Assessment of ignitability of upholstered furniture — Part 2: Ignition source: match-flame equivalent*

ISO 10993-1, *Biological evaluation of medical devices — Part 1: Evaluation and testing within a risk management process*

ISO 13732-1, *Ergonomics of the thermal environment — Methods for the assessment of human responses to contact with surfaces — Part 1: Hot surfaces*

ISO 14971, *Medical devices — Application of risk management to medical devices*

ISO 15223-1, *Medical device – Symbols to be used with medical device labels, labelling and information to be supplied – Part 1: General requirements*

ISO 20417, *Medical devices — Information to be supplied by the manufacturer*

ISO 7000, *Graphical symbols for use on equipment — Registered symbols*

EN 614-1+A1, *Safety of machinery - Ergonomic design principles - Part 1: Terminology and general principles*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

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— IEC Electropedia: available at http://www.electropedia.org/

3.1
brake
device for slowing or stopping motion of a rollator by contact friction

3.2
front handgrip reference point
position on the upper surface of the *handgrip* (3.3) located 30 mm from the front end of the handgrip length

Note 1 to entry: See Figure 1.

3.3
handgrip
part of the rollator that is intended by the manufacturer to be held by the hand when the rollator is in use

Note 1 to entry: See Figure 1.

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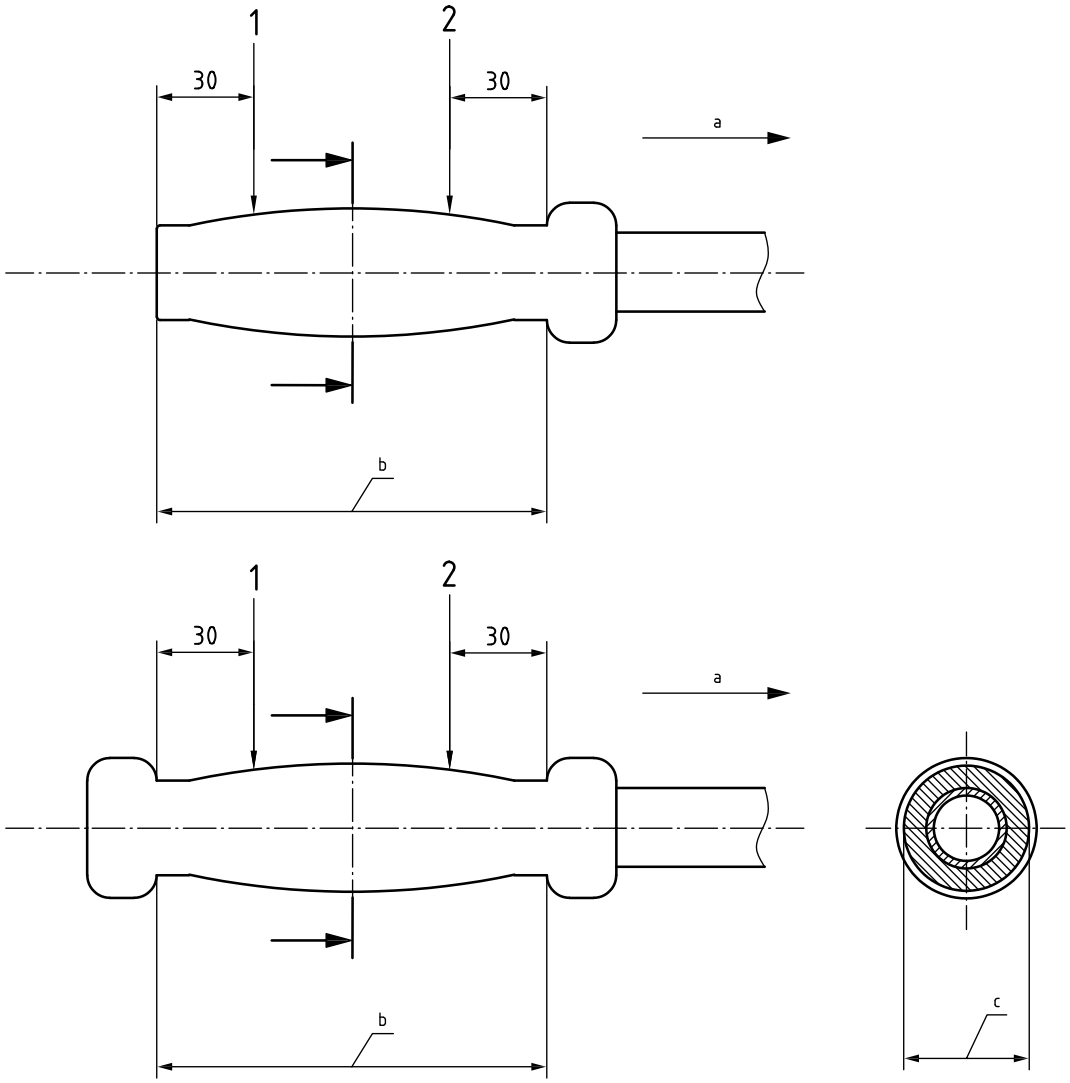
Dimensions in millimetres



Key

1	rear handgrip reference point	b	Handgrip length.
2	front handgrip reference point	c	Handgrip width.
a	Front.		

Figure 1 — Detailed drawing of a handgrip

3.4
handgrip length
dimension of the *handgrip* (3.3) measured where the hand rests

Note 1 to entry: See Figure 1.

Note 2 to entry: Where the front end or the rear end of the handgrip is not clear, the full length of the handgrip that can comfortably support the mass of the user is defined as the handgrip length.

3.5
handgrip width
outside dimension of the *handgrip* (3.3) measured at the thickest point where the hand rests

Note 1 to entry: See Figure 1.

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3.6
handle
part of the rollator to which the *handgrip* (3.3) is attached

3.7
maximum user mass
greatest permissible mass of the person using the product, measured in kilograms (kg)

Note 1 to entry: The maximum user mass is specified by the manufacturer of the rollator.

3.8
maximum width
maximum outside dimension of a rollator when the width is adjusted at its maximum, measured horizontally at right angles to the direction of movement

Note 1 to entry: See Figure 4.

3.9
parking brake
braking system that is intended for keeping the rollator stationary on ground after being activated

3.10
rear handgrip reference point
position on the upper surface of the *handgrip* (3.3) located 30 mm from the rear end of the handgrip length

Note 1 to entry: See Figure 1.

3.11
resting seat
seat for the user to take a rest

3.12
rollator
walking device, which can be moved by pushing or pulling, that enables a person to maintain stability and balance while walking, that has *handgrips* (3.3) or a transverse bar and three or more castors/wheels without forearm supports

Note 1 to entry: See Figure 2.

Note 2 to entry: Double or more castors/wheels used for one pivot position shall be counted as one castor/wheel.

Note 3 to entry: Included are, for example, rollators with a seat for resting, knee walkers, reverse rollators that are pulled with the opening in the front.

Note 4 to entry: ISO 9999, Classification No. 12 06 06.

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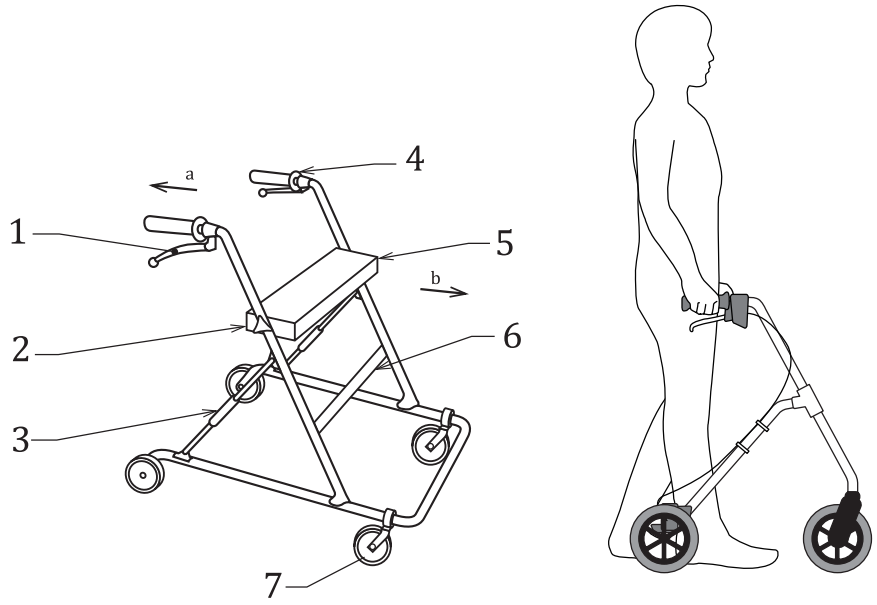

Key

1	brake handle	6	bracing member
2	height adjustment mechanism	7	wheels
3	folding mechanism	a	Rear.
4	handle/handgrip	b	Front.
5	resting seat		

Figure 2 — Example of a rollator

3.13
rollator height
vertical distance from the highest point of the *handle* (3.6) to the ground surface

Note 1 to entry: See Figure 4.

3.14
running brake
braking system that is operated by the user during walking to reduce the speed of the rollator or stop it completely

Note 1 to entry: See Figure 3.

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