



SLOVENSKI STANDARD
SIST EN 1929-1:2001
01-februar-2001

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Basket trolleys - Part 1: Requirements and tests for basket trolleys with or without a child carrying facility

Einkaufswagen - Teil 1: Anforderungen und Prüfungen für Einkaufswagen mit oder ohne Kindersitz

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Chariots d'achat a corbeille - Partie 1: Prescriptions et essais pour les chariots d'achat a corbeille, avec ou sans siege pour enfant

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ICS:

97.130.30 X[: ã \ á á ~] ^i{ æ \ ^ e Trolleys for supermarket use

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EUROPEAN STANDARD
NORME EUROPÉENNE
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EN 1929-1

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English version

Basket trolleys - Part 1: Requirements and tests for basket trolleys with or without a child carrying facility

Chariots d'achat à corbeille - Partie 1: Prescriptions et essais pour les chariots d'achat à corbeille, avec ou sans siège pour enfant

Einkaufswagen - Teil 1: Anforderungen und Prüfungen für Einkaufswagen mit oder ohne Kindersitz

This European Standard was approved by CEN on 30 April 1998.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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FOREWORD

This European Standard has been prepared by Technical Committee CEN/TC 291 "Self-service shopping trolleys", the secretariat of which is held by DIN.

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 November 1998, and conflicting national standards shall be withdrawn at the latest by November 1998.

During the preparation of this European Standard, CEN/TC 291/WG 1 considered general purpose trolleys existing on the market.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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Introduction

This European Standard is a part of a series of standards currently under preparation by CEN/TC 291:

The parts of this series are:

- basket trolleys with or without a child carrying facility - requirements and tests
- basket trolleys with base trays with or without a child carrying facilities - requirements and tests
- basket trolleys with base trays for Do It Yourself markets - requirements and tests
- basket trolleys with or without a child carrying facility intended to be used on passenger conveyors - requirements and tests
- basket trolleys with base trays with or without a child carrying facilities intended to be used on passenger conveyors - requirements and tests
- basket trolleys with base trays for Do It Yourself markets intended to be used on passenger conveyors - requirements and tests

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1 Scope

This European Standard specifies requirements for the construction, performance, testing and safety specifications for general purpose self service basket trolleys, fitted or not fitted with a child carrying facility, for use by customers of self service stores to carry goods.

This European Standard applies to manually driven trolleys that are not intended for use on passenger conveyors.

The technical characteristics of accessories (see 3.8) are not covered by this European Standard.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply only to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

ISO 2768-1 1989 General tolerances - Part 1: Tolerances for linear and angular dimensions without individual tolerance indications

ISO 9227 1990 Corrosion tests in artificial atmospheres - Salt spray tests

3 Definitions

For the purposes of this European Standard, the following definitions apply.

3.1 type A trolley

Trolley consisting of a basket to carry goods, a base equipped with castors, and a handle (see figure 1).

NOTE: Type A trolleys do not have a child carrying facility.



Figure 1: Type A trolley

3.2 type B trolley

Trolley consisting of a basket to carry goods, a base equipped with castors, a handle, and a single child carrying facility positioned inside the basket (see figure 2).



Figure 2: Type B trolley

3.3 handle

Part used to manoeuvre the trolley (see figure 3).

3.4 base

Part of the trolley fitted with the castors and supporting the basket (see figure 3).

3.5 castor

Housing that supports a wheel or wheels mounted in a tread or other element.

NOTE: The housing can be fixed or free to swivel about its vertical axis.

3.6 basket

Part of the trolley used for holding goods (see figure 3).

3.7 nesting flap

3.7.1 plain nesting flap

Moving panel at the rear of the basket for retention of goods (see figure 3).

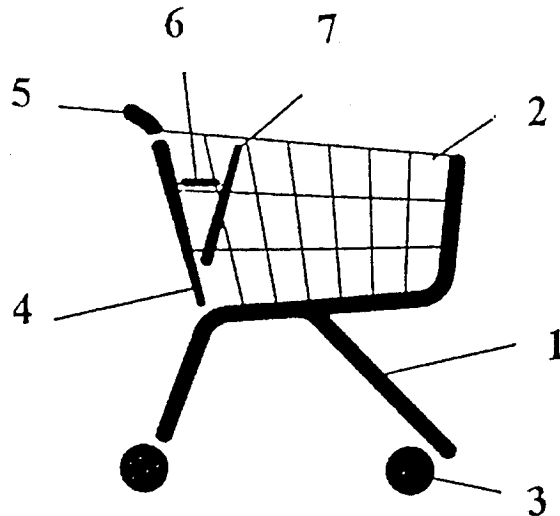
3.7.2 nesting flap with child seat

Moving panel at the rear of the basket for retention of goods, with a seat and back rest functioning as a child carrying facility (see figure 3).

3.8 accessory

Part of a trolley, other than those listed in 3.3 to 3.7, that does not alter the characteristics of the trolley or its test results.

NOTE: The technical characteristics of accessories are not defined in this European Standard.



- | | |
|-----------------|---------------|
| 1. base | 5. handle |
| 2. basket | 6. child seat |
| 3. castor | 7. backrest |
| 4. nesting flap | |

Figure 3: Basket trolley
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3.9 trolley volume

Volume of the basket indicated by the manufacturer.

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3.10 calculated basket volume

Volume calculated in accordance with 5.2.

3.11 basket nominal load

Load in kilograms numerically equal to the calculated basket volume (3.10).

NOTE: This is based on an assumed average load density in practice of 1 kg/dm³.

4 Requirements

4.1 General

4.1.1 Safety

Trolleys shall not contain any exposed or accessible edges, points or burrs, sharp enough to inflict a wound or abrasion. Trolleys with a child carrying facility shall not contain any part that may pinch, cut or injure the child.

When accessories are mounted on the trolley, the trolley and accessories assembly shall conform to this European Standard.

Any part of the trolley that is essential for its safe operation shall not be broken or lose its functionality when a force of 90 N is applied in any direction to that part.

The child carrying facility shall be inside the basket.

4.1.2 Protection of persons against impact

The front of the base of the trolley shall have a radius of at least 5 mm (see 5.9) to minimize risk of injury to users or other persons near the trolley in normal use.

The trolley shall contain no prominent parts that may cause injury to persons in normal use.

4.1.3 Materials of manufacture and coatings

The materials of manufacture and coatings of the basket and child carrying facility shall be easy to clean and shall not affect the hygiene requirements of food in the basket.

4.2 Construction

4.2.1 Geometrical limits of the trolley

4.2.1.1 Maximum trolley width

The trolley width shall not exceed 650 mm, including accessories, with the wheels aligned in the direction of motion.

4.2.1.2 Handle height

The grip area shall be located at a height of between 850 mm and 1150 mm from the floor (see figure 4).

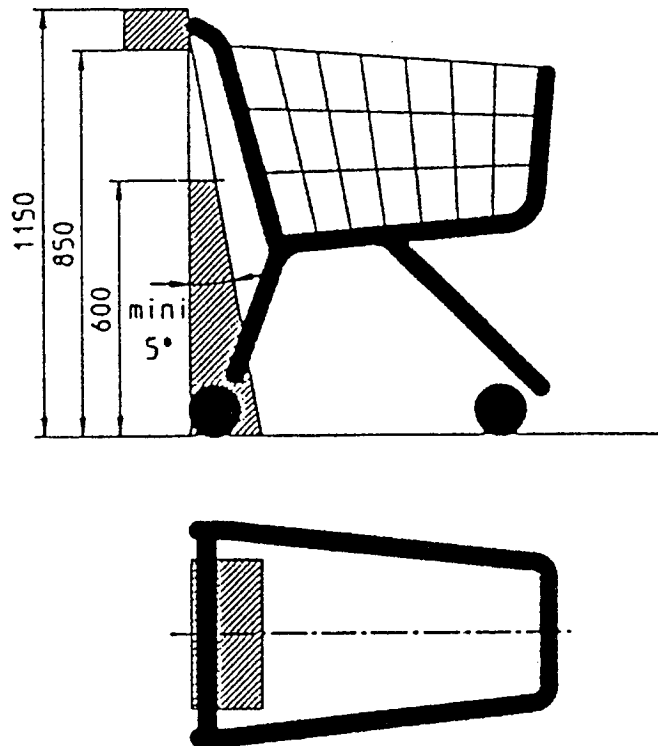
4.2.1.3 Base

The free space between the lowest point of the base and the floor shall be not less than 100 mm.

4.2.1.4 Leg room

No fixed or mobile part of the trolley shall be placed, under the handle, in the space defined by the following limits (see figure 4):

- between the rear wheels;
- the floor;
- the vertical plane beneath the handle;
- a plane inclined at minimum 5° into the trolley, tangent to the handle;
- below a horizontal plane 600 mm above the floor.



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Figure 4: Leg room
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4.2.2 Rolling quality

The trolley shall be fitted with at least four castors, of which at least two shall be able to swivel.

The diameter of the wheels shall be not less than 75 mm. The wheels shall be equipped with threadguards or other similar devices.

Each castor shall have the same load capacity. The load capacity shall be at least 25 % of the total maximum load (weight of trolley plus trolley load).

4.3 Base strength

Under a separation force of 500 N, the following dimensions (see figure 5) shall not change by more than 5 mm (see 5.6):

- track dimension D_1 , measured at the front wheel attachment location;
- track dimension D_2 , measured at the rear wheel attachment location;
- wheel base dimension D_3 , measured between the front wheel and the rear wheel attachment points.