



**SLOVENSKI STANDARD**  
**SIST EN 1929-2:2005**

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Basket trolleys - Part 2: Requirements, tests and inspection for basket trolleys with or without a child carrying facility, intended to be used on passenger conveyors

Einkaufswagen - Teil 2: Anforderungen, Prüfungen und Instandhaltung für Einkaufswagen mit oder ohne Kindersitz, geeignet für den Gebrauch auf Personenfahrsteigen

Chariots d'achat a corbeille - Partie 2: Prescriptions, essais et inspection pour les chariots d'achat a corbeille, avec ou sans siege pour enfant, destinés a etre utilisés sur les trottoirs roulants

**Ta slovenski standard je istoveten z: EN 1929-2:2004**

**ICS:**

97.130.30 X[ : ã\ ãã^ ] ^i{ æ\ ^c Trolleys for supermarket use

**SIST EN 1929-2:2005 en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 1929-2**

December 2004

ICS 97.130.30

English version

**Basket trolleys - Part 2: Requirements, tests and inspection for  
basket trolleys with or without a child carrying facility, intended to  
be used on passenger conveyors**

Chariots d'achat à corbeille - Partie 2 : Prescriptions, essais  
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Instandhaltung für Einkaufswagen mit oder ohne Kindersitz,  
geeignet für den Gebrauch auf Personenfahrteigen

This European Standard was approved by CEN on 16 August 2004.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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## Contents

Page

Foreword.....	3
1 Scope .....	5
2 Normative references .....	5
3 Terms and definitions .....	5
4 Safety .....	5
4.1 Generalities .....	5
4.2 Total loading mass .....	5
4.3 Space between the trolley and the passenger conveyor.....	5
4.4 Maintaining the trolley on the passenger conveyor.....	5
4.5 Stability .....	6
4.6 Stability when exiting the passenger conveyor .....	6
5 Inspections and tests .....	6
5.1 General.....	6
5.1.1 At the delivery of the trolleys .....	6
5.1.2 After major modifications .....	6
5.1.3 Periodically.....	6
5.2 Register.....	7
5.3 Commissioning, use of, maintenance and repair.....	7
5.4 Technical requirements for the use of trolleys on passenger conveyors.....	7
6 Signboards, use instructions and marking.....	8
6.1 Signboards and use instructions.....	8
6.2 Marking .....	8
7 Tests.....	9
7.1 Stability tests.....	9
7.1.1 Longitudinal stability test .....	9
7.1.2 Lateral stability test .....	9
7.2 Test for maintaining trolleys on passenger conveyors.....	10
7.3 Toppling test when exiting from the passenger conveyor.....	11
Bibliography.....	12

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## Foreword

This document (EN 1929-2:2004) has been prepared by Technical Committee CEN/TC 291 “Self-service shopping trolleys”, the secretariat of which is held by BSI.

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 June 2005, and conflicting national standards shall be withdrawn at the latest by June 2005.

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

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## Introduction

This document is a part of a series of standards currently under preparation by CEN/TC 291.

The parts of this series are:

- EN 1929-1, *Basket trolleys — Part 1: Requirements and tests for basket trolleys with or without a child carrying facility*;
- EN 1929-2, *Basket trolleys — Part 2: Requirements, tests and inspection for basket trolleys with or without a child carrying facility, intended to be used on passenger conveyors*;
- prEN 1929-3, *Basket trolleys — Part 3: Requirements and tests for basket trolleys with additional goods carrying facility(ies), with or without a child carrying facility*;
- prEN 1929-4, *Basket trolleys — Part 4: Requirements and tests for basket trolleys with additional goods carrying facility(ies), with or without a child carrying facility, intended to be used on passenger conveyors*;
- prEN 1929-5, *Basket trolleys — Part 5: Requirements and tests for basket trolleys with base trays for Do It Yourself markets*;
- prEN 1929-6, *Basket trolleys — Part 6: Requirements, tests and inspection for basket trolleys with base trays for Do It Yourself markets, intended to be used on passenger conveyors*;
- prEN 1929-7, *Basket trolleys — Part 7: Requirements and tests for basket trolleys with baby and child carrying facilities*.

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## 1 Scope

This document specifies requirements for the construction, performance, testing and safety specifications for general purpose self service basket trolleys, with or without a child carrying facility, intended to be used on passenger conveyors, accompanied by a user.

## 2 Normative references

The following referenced documents are indispensable for the application 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.

EN 115:1995, *Safety rules for the construction and installation of escalators and passenger conveyors*.

EN 1929-1:1998, *Basket trolleys — Part 1: Requirements and tests for basket trolleys with or without a child carrying facility*.

ISO 3864 (both parts), *Safety colours and safety signs*.

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 1929-1:1998 and the following apply.

### 3.1

#### **basket trolley intended to be used on passenger conveyors**

manually driven trolley, suitable for use on a passenger conveyor

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## 4 Safety

### 4.1 Generalities

Trolleys covered by this document are intended to be used on passenger conveyors conforming with EN 115 and shall comply with EN 1929-1, with the exception of 5.4, 6 and 4.2.2 only for the diameter of the wheels.

### 4.2 Total loading mass

When used on a passenger conveyor, the total loading mass of the trolley shall not exceed 160 kg.

### 4.3 Space between the trolley and the passenger conveyor

The trolley complying with this document is intended to be used on passenger conveyors for which the nominal width is not less than 400 mm greater than the overall width of the trolley.

### 4.4 Maintaining the trolley on the passenger conveyor

The trolley shall be equipped with a device that maintains it in a stopped position in the absence of any outside intervention.

The diameter of the wheels shall not be less than 120 mm.

**EN 1929-2:2004 (E)****4.5 Stability**

The trolley shall not overturn, when tested in accordance with:

- 7.1.1, up to and including 16° in the ascending and descending direction;
- 7.1.2, up to and including 10° in the sideways direction.

**4.6 Stability when exiting the passenger conveyor**

The trolley shall not overturn in the descending direction when encountering the comb at the exit of the passenger conveyor. This requirement is considered to be met when the trolley conforms to test 7.3.

**5 Inspections and tests****5.1 General**

The manufacturer shall provide written information on inspections and tests that should include at least the following information:

**5.1.1 At the delivery of the trolleys**

Inspections and operating tests should be carried out by a competent person together with the passenger conveyors on which they will be used.

They should include:

- a) a general visual inspection of the passenger conveyors, especially broken teeth of the comb and dirt;
- b) a general visual inspection of the trolleys;
- c) the efficiency of the devices for maintaining laden and unladen trolleys on passenger conveyors;
- d) the efficiency of the devices for maintaining laden and unladen trolleys when the emergency stop devices have been activated;
- e) the verification of the ability of laden and unladen trolleys to enter and exit passenger conveyors.

**5.1.2 After major modifications**

Inspections and delivery acceptance tests (5.1.1) should be repeated after major modifications.

Major modifications are:

- a) for the passenger conveyor: see 16.2.2 "Inspection and test after major modifications" of EN 115:1995;
- b) for the trolleys: structural modifications; use of components or accessories other than the original ones, in particular changing of wheels or of devices for maintaining trolleys in a stopped position.

NOTE Replacement of parts by parts of the same design is not considered to be a major modification.

**5.1.3 Periodically**

Periodic inspections and tests according to 5.1.1 should be carried out at least every six months. They should include the condition of the castors of all the trolleys.



## 5.2 Register

The technical characteristics of the interface between the passenger conveyor installations and trolleys should be recorded in a register, at the latest at the time of commissioning of the trolleys.

This register should be kept up to date by a competent safety officer and should include:

- a technical record of the trolley commissioning date and characteristics, especially the total loading mass, major modifications or component changes;
- dated reports of examinations, inspections, maintenance and tests, together with comments, as well as reports of any accidents.

This register should be at the disposal of the maintenance department and of the safety manager (the national authority can indicate with reference to their regulations, who is responsible for the register).

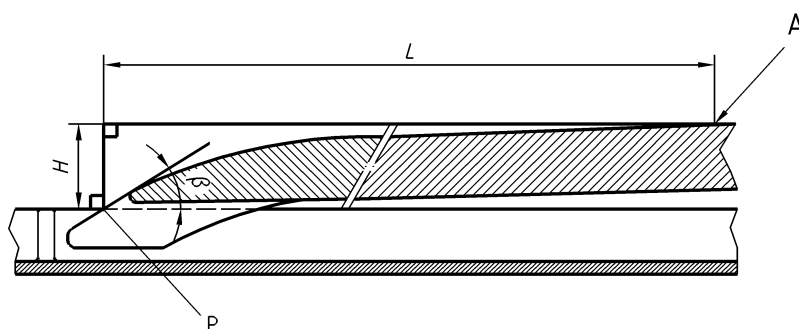
## 5.3 Commissioning, use of, maintenance and repair

The manufacturer shall provide instructions for commissioning, use of, maintenance and repair of the trolleys, as well as the frequency of the periodic tests (at least every six months). The trolleys should be regularly maintained by competent persons.

## 5.4 Technical requirements for the use of trolleys on passenger conveyors

Basket trolleys covered by this document are intended to be used on passenger conveyors conforming to EN 115, the maximum nominal speed of which is 0,5 m/s, and the landing zones are within the limits given in Figure 1, so as to facilitate the transition of trolleys and passengers and to meet the requirements of sub-clause 0.5.3 of EN 115:1995.

- Slant angle of comb teeth in reference to belts or pallets tread surface  $\beta \leq 15^\circ$ ;
- height between belts or pallets tread surface and ground  $H \leq 55 \text{ mm}$ ;
- distance between the height of the belts or pallets tread surface at the level of the comb intersection point (P) and the junction of the ground (A)  $L \geq 500 \text{ mm}$ .



### Key

- P Comb intersection point
- A Junction of the ground

Figure 1 — Comb tooth of passenger conveyors