

## SLOVENSKI STANDARD

**SIST EN 1375:2004**

**01-maj-2004**

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**Identification card system - Intersector integrated circuit(s) card additional formats  
- ID-000 card size and physical characteristics**

Identification card system - Intersector integrated circuit(s) card additional formats - ID-000 card size and physical characteristics

Identifikationskartensysteme - Zusätzliche Formate von branchenübergreifenden  
Chipkarten - Kartengröße ID-000 und physikalische Eigenschaften

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Systemes de cartes d'identification - Autres formats pour les cartes à circuit intégré  
intersectorielles - Dimensions et caractéristiques physiques de la carte ID-000

<https://standards.iteh.ai/catalog/standards/sist/cdbea0ef-0137-4e83-a32b-7eab5d16c86b/sist-en-1375-2004>

**Ta slovenski standard je istoveten z: EN 1375:2002**

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**ICS:**

35.240.15

Identifikacijske kartice in  
sorodne naprave

Identification cards and  
related devices

**SIST EN 1375:2004**

**en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN 1375

October 2002

ICS 35.240.15

Supersedes ENV 1375-1:1994

English version

Identification card system - Intersector integrated circuit(s) card  
additional formats - ID-000 card size and physical  
characteristics

Systèmes de cartes d'identification - Autres formats pour les  
cartes à circuit intégré intersectorielles - Dimensions et  
caractéristiques physiques de la carte ID-000

Identifikationskartensysteme - Zusätzliche Formate von  
branchenübergreifenden Chipkarten - Kartengröße ID-000  
und physikalische Eigenschaften

This European Standard was approved by CEN on 13 July 2002.

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 Management Centre 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 Management Centre 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, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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## Foreword

This document (EN 1375:2002) has been prepared by Technical Committee CEN/TC 224, "Machine-readable cards, related device interfaces and operations", the secretariat of which is held by AFNOR.

This document supersedes ENV 1375-1:1994.

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 April 2003, and conflicting national standards shall be withdrawn at the latest by April 2003.

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, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Annex A is normative and annex B is informative.

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## Introduction

Europe has additional size of IC-card formats related to the standardized ID-1 cards. The additional sizes are called ID-00 and ID-000.

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## 1 Scope

This European Standard defines an ICC format in addition to already standardized ID-1 format. ID-000 format may be derived from ID-1 format as shown in the annex B. This Standard specifies physical characteristics as well as dimensions, locations and assignment of the contacts of cards with integrated circuit(s) plus the related test methods.

## 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 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 (including amendments).

EN ISO/IEC 7810:1996, *Identification cards - Physical characteristics (ISO/IEC 7810:1995)*.

EN ISO 105-E04, *Textiles - Tests for colour fastness - Part E04: Colour fastness to perspiration (ISO 105-E04:1994)*.

EN ISO 1302, *Geometrical Product Specifications (GPS) - Indication of surface texture in technical product documentation (ISO 1302:2002)*.

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ISO 1817, *Rubber, vulcanized - Determination of the effect of liquids.*

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ISO 9227, *Corrosion tests in artificial atmospheres - Salt spray tests.*

ISO/IEC 7816-1, *Identification cards - Integrated circuit(s) cards with contacts - Part 1: Physical characteristics.*  
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ISO/IEC 7816-2:1999, *Information technology - Identification cards - Integrated circuit(s) cards with contacts - Part 2: Dimensions and location of the contacts.*

ISO/IEC 7816-3:1997, *Information technology - Identification cards - Integrated circuit(s) cards with contacts - Part 3: Electronic signals and transmission protocols.*

ISO/IEC 10373-1, *Identification cards - Test methods - Part 1: General characteristics tests.*

## 3 Abbreviations

**ATR** Answer to reset (refer to ISO/IEC 7816-3:1997).

## 4 Dimension of card

The nominal dimensions of the ID-000 card are shown in Table 1.

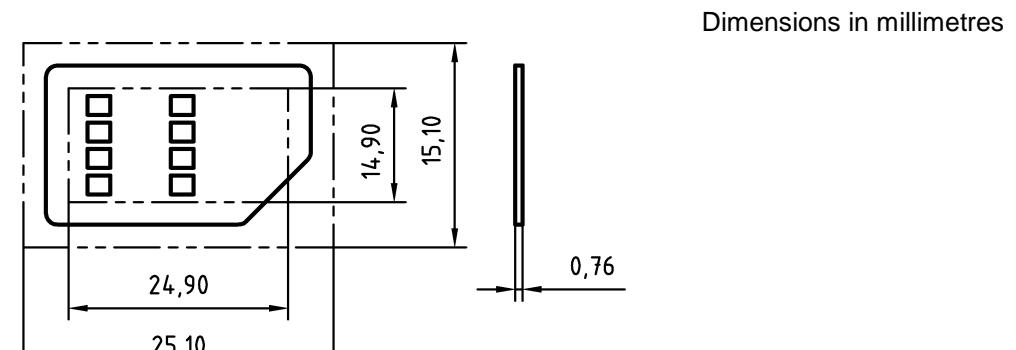
Table 1 — Dimensions

Card type	Width in mm	Height in mm	Thickness in mm
ID-000	25,00	15,00	0,76

#### 4.1 Card width and height

All points on the edges of the card in the finished state, except for the rounded corners and cut corner shall fall between two concentric, similarly aligned rectangles which are dimensioned as follows:

- outer rectangle: width 25,10 mm;  
height 15,10 mm;
- inner rectangle: width 24,90 mm;  
height 14,90 mm.



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Figure 1 — Card dimensional tolerances

#### 4.2 Card thickness

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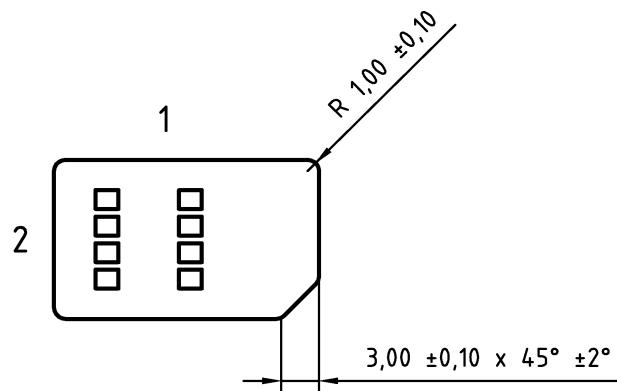
The thickness of the card shall be  $(0,76 \pm 0,08)$  mm.

#### 4.3 Corners

The corners shall be rounded with a radius of  $(1,00 \pm 0,10)$  mm. Care should be taken to avoid misalignments between the rounded corners and the straight edges of the card.

The low right corner shall have a  $(45 \pm 2)^\circ$  cut.

Dimensions in millimetres



### Key

- 1 Upper edge
- 2 Left edge

Figure 2 — Card corner dimensions

## 4.4 Card edges

Edge burrs normal to the card face shall not exceed 0,08 mm above the card surface.

## 5 Card construction

The card may be of solid, laminated, or bonded material.

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## 6 Card material

The card shall be made of PVC (polyvinyl chloride) and/or PVCA (polyvinyl chloride acetate) or material having equal or better performance such as polyester, polyethylenes and polycarbonates. Card insert material Standard may be used. They are not, however, specified in this European Standard.

NOTE Rigid PVC and PVCA are sensitive to the effects of plastizisers which can be incorporated in some flexible plastic materials. Identification cards kept in contact with such flexible plastics may soften, harden, or deform.

## 7 Card characteristics

### 7.1 General

The following general characteristics apply to ID-000 cards.

#### 7.1.1 Flammability

As specified in EN ISO/IEC 7810:1996.

#### 7.1.2 Toxicity

As specified in EN ISO/IEC 7810:1996.

### 7.1.3 Resistance to chemicals

The card shall not exhibit any adverse effects in lamination or physical dimensions when submerged into separate solutions, as described in ISO/IEC 10373-1.

### 7.1.4 Card dimensional stability with temperature and humidity

As specified in 8.1.5 of EN ISO/IEC 7810:1996 with the exception of the last sentence which reads "the structural reliability shall remain in compliance for dimensional stability with clause 5, 8.1.11 and 8.1.12".

### 7.1.5 Light

As specified in EN ISO/IEC 7810:1996.

### 7.1.6 Durability

As specified in EN ISO/IEC 7810:1996.

### 7.1.7 Adhesion or blocking

As specified in EN ISO/IEC 7810:1996 but without the words "without embossing".

## 8 Characteristics related to the integrated circuit cards

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The physical characteristics as described in ISO/IEC 7816-1 in relation to the integrated circuit cards shall also apply.

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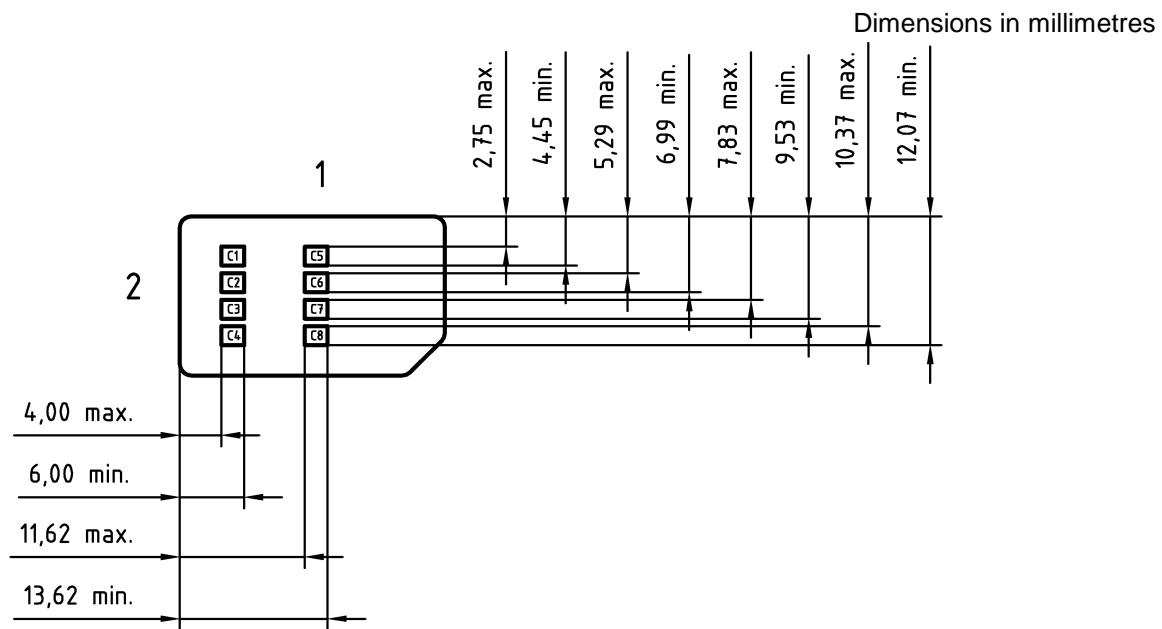
### 9 Dimensions and location of contacts

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#### 9.1 Dimensions of the contacts

As specified in ISO/IEC 7816-2.

## 9.2 Location of contacts



### Key

- 1 Upper edge
- 2 Left edge

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Figure 3 — Contacts location  
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## 9.3 Assignment of the contacts

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*C<sub>1</sub>, C<sub>2</sub>, C<sub>3</sub>, C<sub>5</sub> and C<sub>7</sub> are assigned as specified in Table 1 of ISO/IEC 7816-2:1999. C<sub>4</sub>, C<sub>6</sub> and C<sub>8</sub> are reserved for further standardization by CEN/TC 224.*

## 10 Electrical characteristics resistance

### 10.1 Static electricity resistance

As specified in ISO/IEC 7816-1.

### 10.2 Electrical resistance (of contacts)

As specified in ISO/IEC 7816-1.

## 11 Other features

All other specifications from ISO/IEC 7816-1, ISO/IEC 7816-2 and ISO/IEC 7816-3 apply with the exception that no magnetic stripe and no embossing shall be on this card type.