



**SLOVENSKI STANDARD**  
**SIST EN 13029:2002**  
**01-januar-2002**

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Packaging - Light-gauge metal packaging - Apertures for plug-in plastic closures

Verpackungen - Feinstblechverpackungen - Öffnungen für aufsteckbare Verschlüsse aus Kunststoff

Emballage - Emballages métalliques légers - Ouverture de récipients métalliques équipés de goulots en matière plastique

Ta slovenski standard je istoveten z: **EN 13029:2001**

SIST EN 13029:2002  
<https://standards.iteh.ai/catalog/standards/sist/806ac112-bcc5-4eb8-8cca-10207cf1388e/sist-en-13029-2002>

**ICS:**

55.120

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Cans. Tins. Tubes

**SIST EN 13029:2002**

**en**

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EUROPEAN STANDARD

EN 13029

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2001

ICS 55.120

English version

## Packaging - Light-gauge metal packaging - Apertures for plug-in plastic closures

Emballage - Emballages métalliques légers - Ouverture de récipients métalliques équipés de goulots en matière plastique

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This European Standard was approved by CEN on 1 December 2000.

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

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

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## Foreword

This European Standard has been prepared by Technical Committee CEN/TC 261 "Packaging", the secretariat of which is held by AFNOR

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 July 2001, and conflicting national standards shall be withdrawn at the latest by July 2001.

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

Efficient packaging is of great importance for the distribution and the protection of goods. Insufficient or inappropriate packaging can lead to damage or wastage of the contents of the pack.

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## 1 Scope

This European Standard specifies the dimensions and profile of the aperture for plug-in plastic closures used in round and non-round metal containers of nominal thickness equal to or less than 0,49 mm.

## 2 Dimensions (mm)

The apertures of form A shall be as table 1 using the formulae:

$$d_3 = d_1 + 2(s + 0,1 \text{ max.})$$

where

$d_1$  = Aperture diameter;

$d_2$  = Minimum diameter for flat area of sealing;

$d_3$  = Tool die diameter;

$s$  = Metal thickness.

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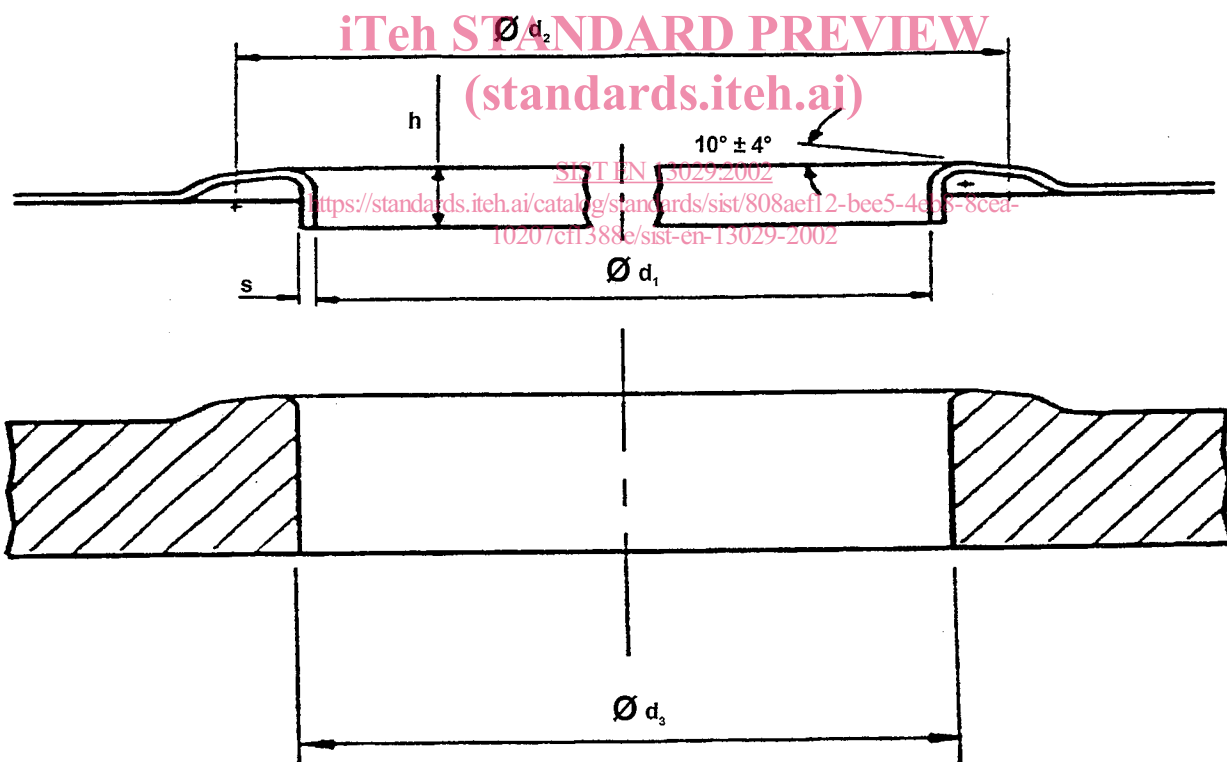
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Table 1 — Apertures of form A

Dimensions in mm.

Nominal Diameter	Aperture Diameter		Skirt Depth h + 0,20 - 0	Diameter <sup>a</sup> d <sub>2</sub>
	d <sub>1</sub>	Tolerance		
12	11,95	+ 0 - 0,10	1,70	18
24	23,85		1,75	30
27	26,58		1,90	34
32	31,85		1,75	40
42	42,30	+ 0 - 0,20	2,20	51
57	56,90		2,40	71

<sup>a</sup> Within the diameter d<sub>2</sub>, there should be no beads, because this area is needed for the plastic closure



Thickness, hardness and shape of the sheet around the aperture shall be so determined, that the top end will not be deformed by the axial load, when the closure will be pressed in.

Figure 1 — Profile of the aperture for a plug-in plastic closure