



# SLOVENSKI STANDARD SIST EN ISO 5457:2002

01-februar-2002

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## Tehnična dokumentacija izdelkov - Velikosti in ureditev risalnih listov (ISO 5457:1999)

Technical product documentation - Sizes and layout of drawing sheets (ISO 5457:1999)

Technische Produktdokumentation - Formate und Gestaltung von Zeichnungsvordrucken (ISO 5457:1999)

**iTeh STANDARD PREVIEW**

Documentation technique de produits - Formats et présentation des éléments graphiques des feuilles de dessin (ISO 5457:1999)

[SIST EN ISO 5457:2002](https://standards.iteh.ai/catalog/standards/sist/a21d3232-5cb3-45dc-a5a1-8215ad549021/sist-en-iso-5457-2002)

Ta slovenski standard je istoveten z: **EN ISO 5457:1999**

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### **ICS:**

01.100.01	Tehnično risanje na splošno	Technical drawings in general
01.110	Tehnična dokumentacija za izdelke	Technical product documentation

**SIST EN ISO 5457:2002**

**en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN ISO 5457

February 1999

ICS 01.100.00

English version

Technical product documentation - Sizes and layout of drawing  
sheets (ISO 5457:1999)

Documentation technique de produits - Formats et  
présentation des éléments graphiques des feuilles de  
dessin (ISO 5457:1999)

Technische Produktdokumentation - Formate und  
Gestaltung von Zeichnungsvordrucken (ISO 5457:1999)

This European Standard was approved by CEN on 13 February 1999.

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.

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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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EN ISO 5457:1999

## Foreword

The text of the International Standard ISO 5457:1999 has been prepared by Technical Committee ISO/TC 10 "Technical drawings, product definition and related documentation" in collaboration with CEN/CS.

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 August 1999, and conflicting national standards shall be withdrawn at the latest by August 1999.

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.

## Endorsement notice

The text of the International Standard ISO 5457:1999 was approved by CEN as a European Standard without any modification.

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# INTERNATIONAL STANDARD

**ISO  
5457**

Second edition  
1999-02-01

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## Technical product documentation — Sizes and layout of drawing sheets

*Documentation technique de produits — Formats et présentation des  
éléments graphiques des feuilles de dessin*

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Reference number  
ISO 5457:1999(E)

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 5457 was prepared by Technical Committee ISO/TC 10, *Technical drawings, product definition and related documentation*, Subcommittee SC 1, *Basic conventions*.

This second edition cancels and replaces the first edition (ISO 5457:1980), which has been technically revised.

Annex A of this International Standard is for information only.

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# Technical product documentation — Sizes and layout of drawing sheets

## 1 Scope

This International Standard specifies the size and layout of preprinted sheets for technical drawings in any field of engineering, including those produced by computer. This International Standard is also applicable to other technical documents.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 128-20:1996, *Technical drawings — General principles of presentation — Part 20: Basic conventions for lines.*

<https://standards.iteh.ai/catalog/standards/sist/a21d3232-5cb3-45dc-a5a1-82b5-451977171077/iso-128-20-1996>

ISO 216:1975, *Writing paper and certain classes of printed matter — Trimmed sizes — A and B series.*

ISO 3098-1:1974, *Technical drawings — Lettering — Part 1: Currently used characters.*

ISO 7200:1984, *Technical drawings — Title blocks.*

ISO 9958-1:1992, *Draughting media for technical drawings — Draughting film with polyester base — Part 1: Requirements and marking*

ISO 9961:1992, *Draughting media for technical drawings — Natural tracing paper.*

## 3 Sizes

### 3.1 Size of series ISO-A

The original drawing should be made on the smallest sheet permitting the necessary clarity and resolution.

The preferred sizes of the trimmed and untrimmed sheets as well as the drawing space of the main ISO-A series (see ISO 216) are given in table 1.

Table 1 — Sizes of trimmed and untrimmed sheets and the drawing space

Dimensions in millimetres

Designation	Figure	Trimmed sheet (T)		Drawing space		Untrimmed sheet (U)	
		$a_1$ 1)	$b_1$ 1)	$a_2$ $\pm 0,5$	$b_2$ $\pm 0,5$	$a_3$ $\pm 2$	$b_3$ $\pm 2$
A0	1	841	1 189	821	1 159	880	1 230
A1	1	594	841	574	811	625	880
A2	1	420	594	400	564	450	625
A3	1	297	420	277	390	330	450
A4	2	210	297	180	277	240	330

NOTE — For sizes > A0, see ISO 216.

1) For tolerances, see ISO 216.

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Dimensions in millimetres

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Dimensions in millimetres

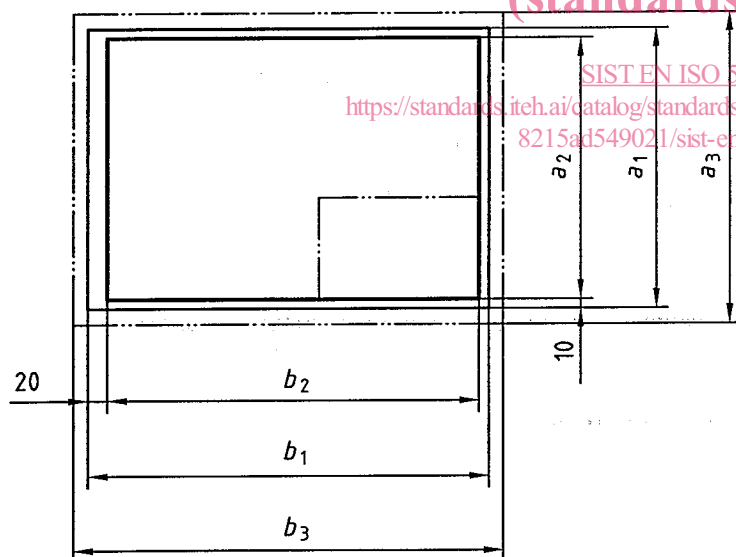


Figure 1 — Size A3 to A0

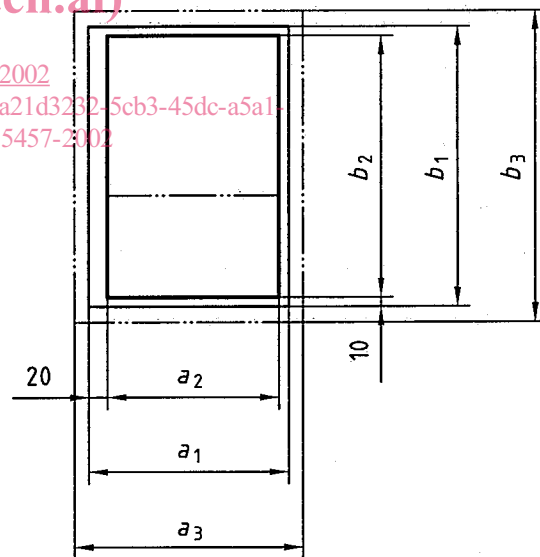


Figure 2 — Size A4

The size designation shall be placed in the bottom border at the right corner (see figure 5).

### 3.2 Elongated sizes

Elongated sizes should be avoided. Otherwise they are formed by combination of the dimensions of the short side of an A-size (e.g. A3) with the dimensions of the long side of another larger A-size (e.g. A1). The result is a new size, for example with the abbreviation A3.1. The structure of the size system is shown in figure 3.



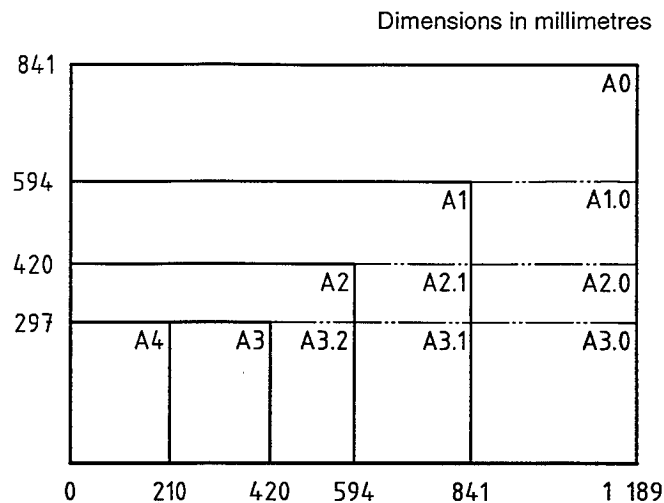


Figure 3 — Size system overview

## 4 Graphical features

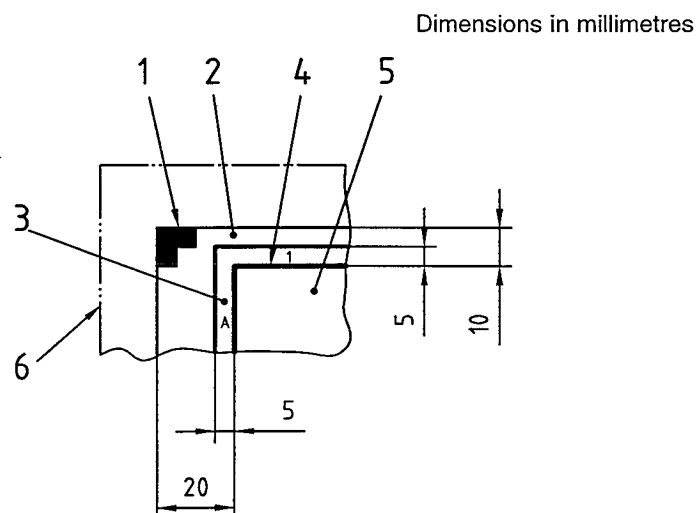
### 4.1 Title block

For the dimensions and layout of title blocks, see ISO 7200. The location of the title block for the sizes A0 to A3 is situated in the bottom right hand corner of the drawing space. Only sheets positioned horizontally are permitted for these formats (see figure 1). For the size A4, the title block is situated in the shorter (lower) part of the drawing space. Only sheets positioned vertically are allowed for this format (see figure 2). The direction of the reading of the drawings is equal to that of the title block.

### 4.2 Borders and frame

Borders enclosed by the edges of the trimmed sheet and the frame limiting the drawing space shall be provided with all sizes. The border shall be 20 mm wide on the left edge, including the frame. It can be used as a filing margin. All other borders are 10 mm wide (see figure 4).

The frame for limiting the drawing space shall be executed with continuous lines of 0,7 mm width.



#### Key

- |   |                       |   |                        |
|---|-----------------------|---|------------------------|
| 1 | Trimming mark         | 4 | Frame of drawing space |
| 2 | Trimmed format        | 5 | Drawing space          |
| 3 | Grid reference border | 6 | Untrimmed format       |

Figure 4 — Borders