

SLOVENSKI STANDARD SIST ISO 3098-1:1995

01-junij-1995

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Technical drawings -- Lettering -- Part 1: Currently used characters

Dessins techniques -- Écriture S Partie 1: Caractères courants EW (standards.iteh.ai) Ta slovenski standard je istoveten z: ISO 3098-1:1974

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ ORGANISATION INTERNATIONALE DE NORMALISATION

Technical drawings – Lettering – Part I : Currently used characters

Dessins techniques – Écriture – Partie I : Caractères courants

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SIST ISO 3098-1:1995

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 3098/I was drawn up by Technical Committee ISO/TC 10, *Technical drawings*, and circulated to the Member Bodies in February 1973.

It has been approved by the Member Bodies of the following countries : 1995

Australia Austria Belgium Canada Chile	Hungary India Ireland	log/standards/sist/473a803d-0b1f-4a7e-b400- New Zealand Scaa/sist-iso-3098-1-1995 Norway Poland Romania South Africa, Rep. of
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Chile	Ireland	South Africa, Rep. of
Czechoslovakia	Israel	Sweden
Denmark	Italy	Switzerland
Egypt, Arab Rep. of	Japan	United Kingdom
Finland	Netherlands	

The Member Bodies of the following countries expressed disapproval of the document on technical grounds :

Bulgaria U.S.A.

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Technical drawings – Lettering – Part I : Currently used characters

1 SCOPE AND FIELD OF APPECATION ANDARD 3 DIMENSIONS W

This International Standard specifies the characteristics of Sittle following specifications are given for the dimensions of lettering used on technical drawings and associated letters and numerals : documents. It concerns primarily letters written with the aid of stencils, but is equally applicable to other methods of 98-1:1995

free-hand lettering. https://standards.iteh.ai/catalog/standards/sist/**3.7**Ba**Thelheight/h**7ofltheOcapital letters is taken as the base 325ab3dd5caa/sist-iso-30**of**-dimensioning (see tables 1 and 2).

2 GENERAL

2.1 The essential features of lettering on technical drawings are :

- legibility,
- uniformity,

suitability for microfilming and other photographic reproduction.

2.2 In order to satisfy the above-mentioned requirements, the following rules shall be followed :

2.2.1 The characters are to be clearly distinguishable from each other in order to avoid any confusion between them, even in the case of slight mutilations.

2.2.2 Microfilming and other photographic reproductions require the distance between two adjacent lines or the space between letters or numerals to be at least equal to twice the line thickness (see the figure and tables 1 and 2). In cases where the thickness of two adjacent lines is different, the spacing shall be twice the thickness of the heavier line.

2.2.3 The line thickness for lower-case and capital letters shall be the same in order to facilitate lettering.

3.2 The range of standard heights h for lettering is as follows:

The ratio of $\sqrt{2}$ in the range of heights for lettering is derived from the standardized progression of dimensions for paper sizes (A-series according to ISO/R 216, *Trimmed sizes of writing paper and certain classes of printed matter*).

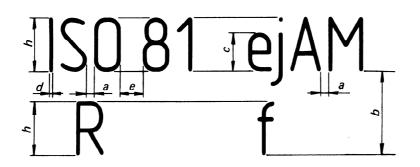
3.3 The heights h and c shall be not less than 2,5 mm.

NOTE – This means that when combining capitals and lower-case lettering and taking the value of 2,5 for c, h will be 3,5 mm.

3.4 The two standard ratios for d/h, 1/14 and 1/10, are most economical as they result in a minimum number of line thicknesses as is illustrated in tables 1 and 2.

Recommended ratios for the height of lower-case letters (without stem or tail), for the space between characters, for the minimum space of the base lines and the minimum space of words are given in tables 1 and 2.

3.5 The lettering may be inclined 15° to the right, or may be vertical (upright).



FIGURE

TABLE 1

Lettering A (d = h/14)

Values in millimetres

Values in millimetres

Characteristic		Ratio	Dimensions						
Lettering height Height of capitals	h iTab S	(14/14) h	2,5	3,5	5	7	10	14	20
Height of lower-case letters (without stem or tail)	c II en s	(10/14) <i>h</i>	o ards	2,5	3,5	5	7	10	14
Spacing between characters	а	(2/14) h	0,35	0,5	0,7	1	1,4	2	2,8
Minimum spacing of base lines	b https://standards.i	(20/14) h teh.ai/catalog	<u>ISQ 309</u> (standard:	<u>8-1:1995</u> s/sist/473a	7 803d-0b1	10 f-4a7e-b4	14 100-	20	28
Minimum spacing between words	е	3264143ch15	aa% 95 -is	o-3 098- 1	-19 95 1	3	4,2	6	8,4
Thickness of lines	d	(1/14) <i>h</i>	0,18	0,25	0,35	0,5	0,7	1	1,4

NOTE – The spacing a between two characters may be reduced by half if this gives a better visual effect, as for example LA, TV; it then equals the line thickness d.

TABLE 2

Lettering B (d = h/10)

Characteristic		Ratio	Dimensions						
Lettering height Height of capitals	h	(10/10) <i>h</i>	2,5	3,5	5	7	10	14	20
Height of lower-case letters (without stem or tail)	С	(7/10) <i>h</i>	-	2,5	3,5	5	7	10	14
Spacing between characters	а	(2/10) h	0,5	0,7	1	1,4	2	2,8	4
Minimum spacing of base lines	b	(14/10) <i>h</i>	3,5	5	7	10	14	20	28
Minimum spacing between words	е	(6/10) h	1,5	2,1	3	4,2	6	8,4	12
Thickness of lines	ď	(1/10) <i>h</i>	0,25	0,35	0,5	0,7	1	1,4	2

NOTE – The spacing a between two characters may be reduced by half if this gives a better visual effect, as for example LA, TV; it then equals the line thickness d.

4 SPECIMENS

The following specimens are given only as a guide to illustrate the principles established in clauses 2 and 3. Special or typical characteristics of lettering (accents or any diacritical marks) according to various languages are not included in the examples but shall be designed on the same principles as specified in this International Standard.

Lettering A inclined



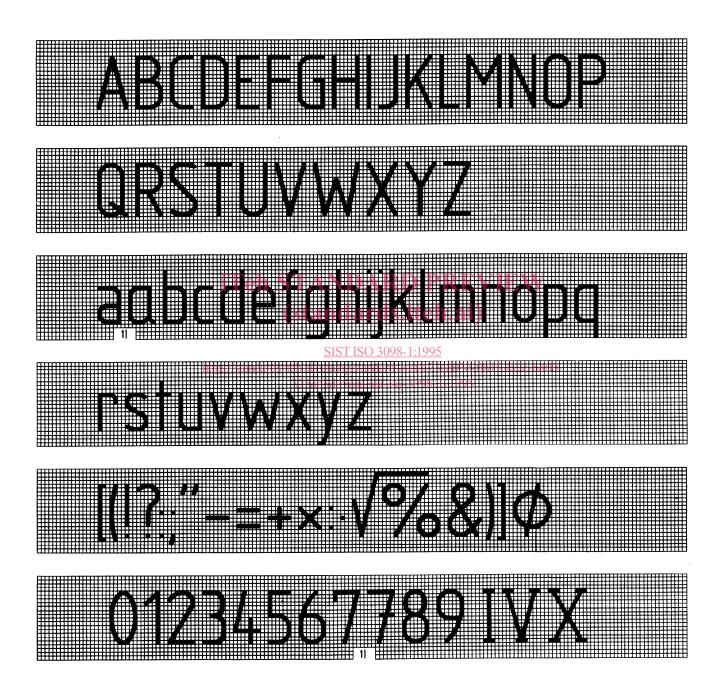
1) Both of these characters are in accordance with the directives on lettering and a choice between the given possibilities is left to the national bodies.

NOTE - To obtain constant line-density, freedom from blotting at intersecting lines and ease of writing, the letters shall be formed so that lines cross or meet nearly at right angles.

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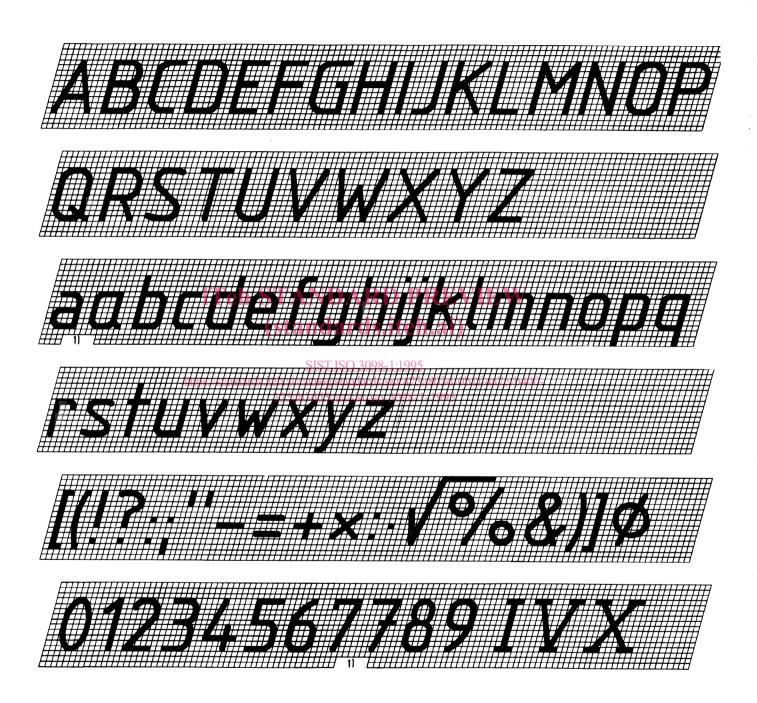
Lettering A vertical



1) Both of these characters are in accordance with the directives on lettering and a choice between the given possibilities is left to the national bodies.

NOTE - To obtain constant line-density, freedom from blotting at intersecting lines and ease of writing, the letters shall be formed so that lines cross or meet nearly at right angles.

Lettering B inclined



1) Both of these characters are in accordance with the directives on lettering and a choice between the given possibilities is left to the national bodies.

NOTE - To obtain constant line-density, freedom from blotting at intersecting lines and ease of writing, the letters shall be formed so that lines cross or meet nearly at right angles.