

INTERNATIONAL STANDARD

ISO
9178-3

First edition
1989-02-15

Templates for lettering and symbols —

Part 3 :

Slot widths for technical pens with tubular tips
in accordance with ISO 9175-1

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Gabarits de dessin pour l'écriture et les symboles —

*Partie 3 : Largeurs de perforation pour plumes tubulaires à pointe tubulaire
conforme à l'ISO 9175-1*

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Reference number
ISO 9178-3 : 1989 (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 approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 9178-3 was prepared by Technical Committee ISO/TC 10, *Technical drawings*.

ISO 9178-3:1989

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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0 Introduction

ISO 9178 has been drawn up to provide a universal means of communication between the various interests involved in technical drawing.

Requirements in industry vary considerably; in recognition of this fact, ISO 9178 comprises several parts:

Part 1: General principles and identification markings.

Part 2: Slot widths for wood-cased pencils, clutch pencils and fine-lead pencils.

Part 3: Slot widths for technical pens with tubular tips in accordance with ISO 9175-1.

1 Scope and field of application

This part of ISO 9178 specifies slot widths for templates so that technical pens can be guided correctly. It applies to lettering and draughting templates used to produce technical drawings by technical pens with tubular tips in accordance with ISO 9175-1.

This part of ISO 9178 is not applicable in the case of technical drawings prepared by means of plotters.

2 References

ISO 128, *Technical drawings — General principles of presentation*.

ISO 3098, *Technical drawings — Lettering —*

Part 1: Currently used characters.

Part 2: Greek characters.

Part 3: Diacritical and particular marks for the Latin alphabet.

Part 4: Cyrillic characters.

ISO 9175-1, *Tubular tips for hand-held technical pens using India ink on tracing paper — Part 1: Definitions, dimensions, designation and marking.*

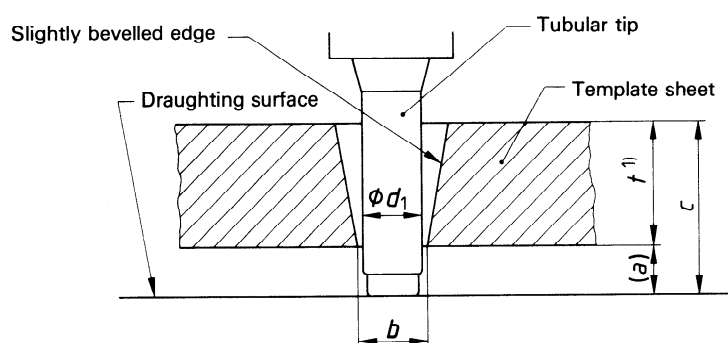
ISO 9178-1, *Templates for lettering and symbols — Part 1: General principles and identification markings.*

3 Definitions

For the purposes of this part of ISO 9178, the definitions given in ISO 9178-1 apply.

4 Dimensions

In order to reproduce lettering in accordance with ISO 3098-1, ISO 3098-2, ISO 3098-3 and ISO 3098-4, dimensions *a*, *b* and *c* shall be as specified in the figure and the table.



- 1) The template sheet thickness, t , should be chosen to suit the pencils to be used and to provide adequate rigidity during use.

Figure

Table — Slot widths according to line thickness

Dimensions in millimetres

Line thickness ¹⁾	Colour code	Tubular tip diameter d_1 nom.	Slot width b	Distance between the template and the draughting surface	
				(a) min.	c max.
0,13 ²⁾	Violet	0,35	0,35 + 0,07 + 0,03	0,5	2,5
0,18	Red				
0,25	White				
0,35	Yellow	0,5	0,5 + 0,08 + 0,03		3
0,5	Brown	0,7	0,7 + 0,1 + 0,03		
0,7	Blue	1	1 + 0,12 + 0,03		
1	Orange	1,4	1,4 + 0,15 + 0,04	1	
1,4	Green	2	2 + 0,2 + 0,05		
2	Grey	2,8	2,8 + 0,25 + 0,05		

1) In accordance with ISO 128.

2) Line thickness not specified in ISO 128.

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Descriptors : drawing equipment, letters (symbols), graphic symbols, patterns, dimensions.

Price based on 2 pages