SLOVENSKI STANDARD
SIST EN ISO 5455:1998

01-maj-1998

Tehnične risbe - Merila

Technical drawings - Scales (ISO 5455:1979)

Technische Zeichnungen - Maßstäbe (ISO 5455:1979)

Dessins techniques - Echelles (ISO 5455:1979)

Ta slovenski standard je istoveten z: **EN ISO 5455:1994**

ICS:

01.100.01	Tehnično risanje na splošno	Technical drawings in general

SIST EN ISO 5455:1998 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 5455

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ICS 01.100.10

Descriptors: scale (ratio), designation, engineering drawings

English version

Technical drawings - Scales (ISO 5455:1979)

Dessins techniques - Echelles (ISO 5455:1979)

Technische Zeichnungen - Maßstäbe (ISO 5455:1979)

This European Standard was approved by CEN on 1994-10-14. 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.

The European Standards exist 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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart,36 B-1050 Brussels

Foreword

This European Standard was taken over by CEN from the work of ISO/TC 10 "Technical drawings, product definition and related documentation" of the international Standards Organization (ISO).

The Technical Board had decided to submit the final draft for Formal Vote. The result was positive.

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of an identical text or by endorsement, at the latest by April 1995, and conflicting national standards shall be withdrawn at the latest by April 1995.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

Endorsement notice

The text of the International Standard ISO 5455:1979 was approved by CEN as a European Standard without any modification.

INTERNATIONAL STANDARD 5455

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

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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 5455 was developed by Technical Committee ISO/TC 10, *Technical drawings*, and was circulated to the member bodies in May 1977.

It has been approved by the member bodies of the following countries :

Australia	Germany, R. F.	Philippines
Austria	Hungary	Romania
Belgium	India	South Africa, Rep. of
Brazil	Ireland	Spain
Bulgaria	Italy	Swtizerland
Canada	Japan	Turkey
Chile	Mexico	United Kingdom
Denmark	Netherlands	U.S.A.
Finland	New Zealand	U.S.S.R.
France	Norway	Yugoslavia

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Czechoslovakia
Poland
Sweden

Printed in Switzerland

Technical drawings — Scales

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies recommended scales and their designation for use on all technical drawings in any field of engineering.

2 DEFINITIONS

2.1 scale : Ratio of the linear dimension of an element of an object as represented in the original drawing to the real linear dimension of the same element of the object itself.

NOTE — The scale of a print may be different from that of the original drawing.

2.2 full size : A scale with the ratio 1 : 1.

2.3 enlargement scale : A scale where the ratio is larger than 1 : 1. It is said to be larger as its ratio increases.

2.4 reduction scale : A scale where the ratio is smaller than 1 : 1. It is said to be smaller as its ratio decreases.

3 DESIGNATION

The complete designation of a scale shall consist of the word "SCALE" (or its equivalent in the language used on the drawing) followed by the indication of its ratio, as follows :

- SCALE 1 : 1 for full size;
- SCALE X : 1 for enlargement scales;
- SCALE 1 : X for reduction scales.

If there is no likelihood of misunderstanding, the word "SCALE" may be omitted.

4 INSCRIPTION

4.1 The designation of the scale used on the drawing shall be inscribed in the title block of the drawing.

4.2 Where it is necessary to use more than one scale on a drawing, the main scale only shall be inscribed in the title block, and all other scales adjacent to the item reference number of the part concerned, or adjacent to the reference letter of a detail view (or section).

5 SCALES

5.1 The recommended scales for use on technical drawings are specified in the following table.

Category	Recommended scales		
Enlargement scales	50 : 1 5 : 1	20 : 1 2 : 1	10 : 1
Full size			1 : 1
Reduction scales	1 : 2 1 : 20 1 : 200 1 : 2 000	1 : 5 1 : 50 1 : 500 1 : 5 000	1 : 10 1 : 100 1 : 1 000 1 : 10 000

NOTE — If, for special applications, there is need for a larger enlargement scale or a smaller reduction scale than those shown in the table, the recommended range of scales may be extended in either direction, provided that the required scale be derived from a recommended scale by multiplying by whole number powers of 10. In exceptional cases where for functional reasons the recommended scales cannot be applied, intermediate scales may be chosen.

5.2 The scale to be chosen for a drawing will depend upon the complexity of the object to be depicted and the purpose of the representation.

In all cases, the selected scale shall be large enough to permit easy and clear interpretation of the information depicted.

The scale and the size of the object, in turn, will decide the size of the drawing.

5.3 Details that are too small for complete dimensioning in the main representation shall be shown adjacent to the main representation in a separate detail view (or section) which is drawn to a larger scale.

6 LARGE SCALE DRAWINGS

It is recommended that, for information, a full size view be added to the large scale representation of a small object.

In this case the full size view may be simplified by showing the outlines of the object only.