



SLOVENSKI STANDARD SIST EN ISO 1660:2000

01-december-2000

Technical drawings - Dimensioning and tolerancing of profiles (ISO 1660:1987)

Technical drawings - Dimensioning and tolerancing of profiles (ISO 1660:1987)

Technische Zeichnungen - Maßangaben und Toleranzeintragungen von Profilen (ISO 1660:1987)

Dessins techniques - Cotation et tolérancement des profils (ISO 1660:1987)

STANDARD PREVIEW
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Ta slovenski standard je istoveten z: EN ISO 1660:1995

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ICS:

01.100.01	Tehnično risanje na splošno	Technical drawings in general
17.040.10	Tolerance in ujemi	Limits and fits

SIST EN ISO 1660:2000

en

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EUROPEAN STANDARD

EN ISO 1660

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 1995

ICS 01.100.10

Descriptors: drawings, technical drawings, dimensioning, profiles, designation

English version

Technical drawings - Dimensioning and tolerancing of profiles (ISO 1660:1987)Dessins techniques - Cotation et tolérancement
des profils (ISO 1660:1987)Technische Zeichnungen - Maßangaben und
Toleranzeintragungen von Profilen
(ISO 1660:1987)**(standards.iteh.ai)**

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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.

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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.

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

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

Foreword

The text of the International Standard from ISO/TC 10 "Technical drawings, product definition and verification" of the International Organization for Standardization (ISO) has been taken over as a European Standard by the Technical Committee CEN/TC 290 "Dimensional and geometrical product definition and related documentation".

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of an identical text or by endorsement, at the latest by March 1996, and conflicting national standards shall be withdrawn at the latest by March 1996.

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 1660:1987 was approved by CEN as a European Standard without any modification.

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INTERNATIONAL STANDARD

ISO
1660

Second edition
1987-11-01



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

Technical drawings — Dimensioning and tolerancing of profiles

Dessins techniques — Cotation et tolérancement des profils

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Reference number
ISO 1660:1987 (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.

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 1660 was prepared by Technical Committee ISO/TC 10, *Technical drawings*.

This second edition cancels and replaces the first edition (ISO 1660 : 1982), of which it constitutes a technical revision.

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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Technical drawings — Dimensioning and tolerancing of profiles

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1 Scope and field of application

This International Standard describes the dimensioning and the geometrical tolerancing of profiled outlines and of profiled surfaces. The methods described are related to the sub-clauses in ISO 1101 dealing with the “profile tolerance of any line” and “profile tolerance of any surface”.

2 Reference

ISO 1101, *Technical drawings — Geometrical tolerancing — Tolerancing of form, orientation, location and run-out — Generalities, definitions, symbols, indications on drawings.*

3 Dimensioning

Profiles may be dimensioned by either of the methods described in 3.1 and 3.2.

3.1 The successive radii of curvature and sufficient dimensions shall be given to locate the corresponding elements of the curve (see figure 1).

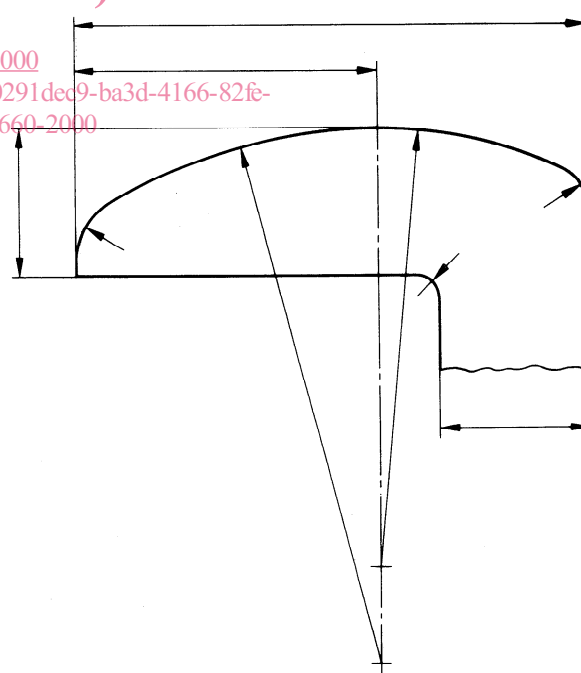


Figure 1

ISO 1660 : 1987 (E)

3.2 Linear or polar coordinates of a series of points through which the profile passes shall be given (see figure 2).

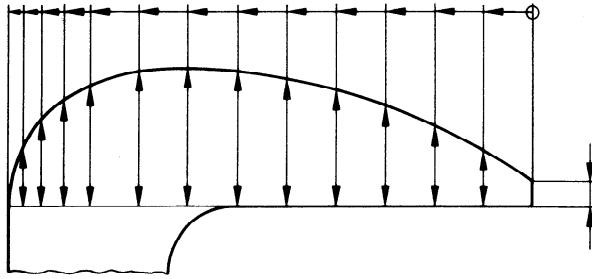
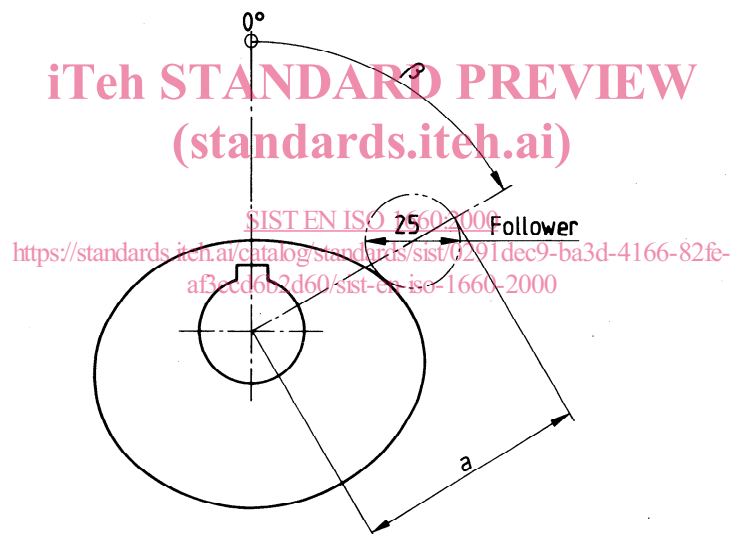


Figure 2

3.3 With either of the methods described in 3.1 or 3.2 it may be necessary to specify dimensions in association with a follower; the dimension, a , shall then be indicated on the drawing (see figure 3).



β	0°	20°	40°	60°	80°	100°	120 to 210°	230°	260°	280°	300°	320°	340°
a	50	52,5	57	63,5	70	74,5	76	75	70	65	59,5	55	52

Figure 3

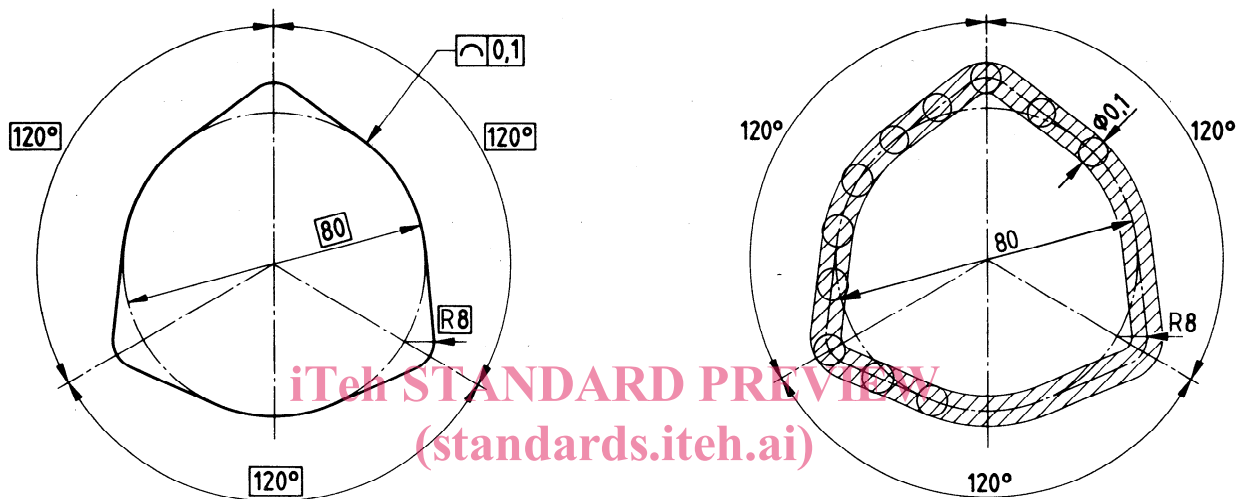
4 Indication of tolerances

Profile dimensions may be toleranced by methods described in 4.1 and 4.2; the actual profile shall be contained within the specified tolerance zone.

4.1 Geometrical tolerancing of a line

The tolerance zone is defined with respect to the "true" profile which is itself defined by theoretically exact (basic) dimensions. The tolerance zone shall be equally disposed on either side of the true profile.

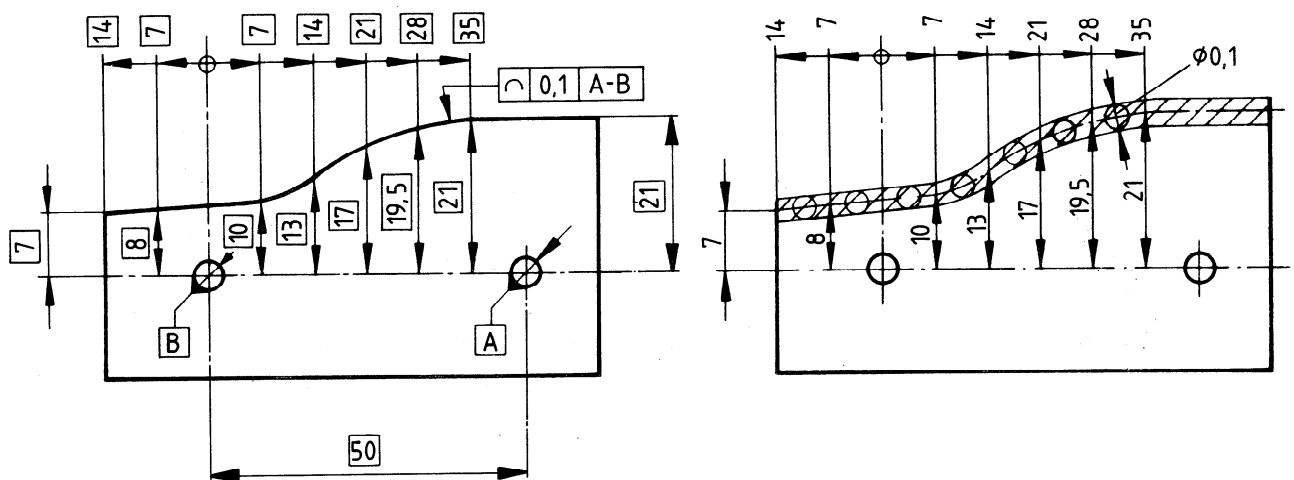
The width of the tolerance zone is uniform when measured normal to the true profile at any point (see figures 4 and 5).



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 a) Indication on the drawing b) Interpretation

Figure 4

The tolerance zone is related to datum features.



a) Indication on the drawing

b) Interpretation

Figure 5