



SLOVENSKI STANDARD

SIST EN ISO 2538:2004

01-maj-2004

Geometrical product specifications (GPS) - Series of angles and slopes on prisms (ISO 2538:1998)

Geometrical product specifications (GPS) - Series of angles and slopes on prisms (ISO 2538:1998)

Geometrische Produktspezifikation (GPS) - Reihen von Winkeln und Neigungen an Prismen (ISO 2538:1998)

Spécification géométrique des produits (GPS) - Séries d'angles et d'inclinaisons de prismes (ISO 2538:1998)

STANDARD PREVIEW
(standards.iteh.ai)
<https://standards.iteh.ai/catalog/standards/sist/9e89f056-7060-44de-980a-b49532c243e9/sist-en-iso-2538-2004>

Ta slovenski standard je istoveten z: EN ISO 2538:2003

ICS:

| | | |
|-----------|--------------------------------------|--|
| 17.040.01 | Linearne in kotne meritve na splošno | Linear and angular measurements in general |
|-----------|--------------------------------------|--|

SIST EN ISO 2538:2004

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 2538:2004](#)

<https://standards.iteh.ai/catalog/standards/sist/9e89f056-7060-44de-980a-b49532c243e9/sist-en-iso-2538-2004>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 2538

February 2003

ICS 17.040.01

English version

Geometrical product specifications (GPS) - Series of angles and slopes on prisms (ISO 2538:1998)

Spécification géométrique des produits (GPS) - Séries d'angles et d'inclinaisons de prismes (ISO 2538:1998)

Geometrische Produktspezifikation (GPS) - Reihen von Winkeln und Neigungen an Prismen (ISO 2538:1998)

This European Standard was approved by CEN on 15 November 2002.

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 Management Centre 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 Management Centre 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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovak Republic, Spain, Sweden, Switzerland and United Kingdom.

[SIST EN ISO 2538:2004](https://standards.iteh.ai/catalog/standards/sist/9e89f056-7060-44de-980a-b49532c243e9/sist-en-iso-2538-2004)

<https://standards.iteh.ai/catalog/standards/sist/9e89f056-7060-44de-980a-b49532c243e9/sist-en-iso-2538-2004>



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN ISO 2538:2003 (E)**Foreword**

The text of ISO 2538:1998 has been prepared by Technical Committee ISO/TC 213 "Dimensional and geometrical product specifications and verification" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 2538:2003 by Technical Committee CEN/TC 290 "Dimensional and geometrical product specification and verification", the secretariat of which is held by AFNOR.

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 2003, and conflicting national standards shall be withdrawn at the latest by August 2003.

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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

Endorsement notice

The text of ISO 2538:1998 has been approved by CEN as EN ISO 2538:2003 without any modifications.

(standards.iteh.ai)

[SIST EN ISO 2538:2004](https://standards.iteh.ai/catalog/standards/sist/9e89f056-7060-44de-980a-b49532c243e9/sist-en-iso-2538-2004)

<https://standards.iteh.ai/catalog/standards/sist/9e89f056-7060-44de-980a-b49532c243e9/sist-en-iso-2538-2004>

INTERNATIONAL STANDARD

ISO
2538

Second edition
1998-09-15

Geometrical Product Specifications (GPS) — Series of angles and slopes on prisms

*Spécification géométrique des produits (GPS) — Séries d'angles et
d'inclinaisons de prismes*

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 2538:2004](https://standards.iteh.ai/catalog/standards/sist/9e89f056-7060-44de-980a-b49532c243e9/sist-en-iso-2538-2004)

[https://standards.iteh.ai/catalog/standards/sist/9e89f056-7060-44de-980a-
b49532c243e9/sist-en-iso-2538-2004](https://standards.iteh.ai/catalog/standards/sist/9e89f056-7060-44de-980a-b49532c243e9/sist-en-iso-2538-2004)



Reference number
ISO 2538:1998(E)

ISO 2538:1998(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 2538 was prepared by the Technical Committee ISO/TC 213, *Dimensional and geometrical product specifications and verification*.

This second edition cancels and replaces the first edition (ISO 2538:1974), of which the tables have been corrected and updated, but not technically modified.

Annexes A and B of this International Standard are for information only.

© ISO 1998

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland
Internet iso@iso.ch

Printed in Switzerland

Introduction

This International Standard is a geometrical product specification (GPS) standard and is to be regarded as a general GPS standard (see ISO/TR 14638). It influences chain links 1 and 2 of the chain of standards on angle.

For more detailed information of the relation of this International Standard to other standards and the GPS matrix model, see annex A.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[SIST EN ISO 2538:2004](https://standards.iteh.ai/catalog/standards/sist/9e89f056-7060-44de-980a-b49532c243e9/sist-en-iso-2538-2004)

<https://standards.iteh.ai/catalog/standards/sist/9e89f056-7060-44de-980a-b49532c243e9/sist-en-iso-2538-2004>

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[SIST EN ISO 2538:2004](#)

<https://standards.iteh.ai/catalog/standards/sist/9e89f056-7060-44de-980a-b49532c243e9/sist-en-iso-2538-2004>

Geometrical Product Specifications (GPS) — Series of angles and slopes on prisms

1 Scope

This International Standard specifies two series of prism angles from 120° to 0° 30' and a series of prism slopes from 1:10 to 1:500, for general mechanical engineering purposes.

2 Definitions

iTeh STANDARD PREVIEW
(standards.iteh.ai)

For the purposes of this International Standard, the following definitions apply.

2.1

prism

part of a piece which is limited by two intersecting planes

[SIST EN ISO 2538:2004](https://standards.iteh.ai/catalog/standards/sist/9e89f056-7060-44de-980a-849920310938/sist-en-iso-2538-2004)

<https://standards.iteh.ai/catalog/standards/sist/9e89f056-7060-44de-980a-849920310938/sist-en-iso-2538-2004>

See figure 1.

NOTE — Both planes are termed "prism planes". When these are intended for fits, they are termed "mating planes for the prism".

2.2

multiple prism

part of a piece which is limited by several pairs of intersecting planes

See figure 2.

NOTES

- 1 A double prism is limited by two pairs of intersecting planes.
- 2 When the intersection of each pair of planes is a point, the multiple prism is a pyramid (see figure 3).

2.3

wedge

prism with a small angle

2.4

slide prism

vee-block

dovetail

typical prism with a large angle

NOTE — These special prisms are used, for example, as a slideway on machine tools (see figures 4 and 5).