



**SLOVENSKI STANDARD**  
**oSIST prEN ISO 25178-7:2009**  
**01-november-2009**

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Geometrical product specifications (GPS) - Surface texture: Areal - Part 7: Software measurement standards (ISO/DIS 25178-7:2009)

Geometrische Produktspezifikation (GPS) - Oberflächenbeschaffenheit: Flächenhaft - Teil 7: Software-Normale (ISO/DIS 25178-7:2009)

Spécification géométrique des produits (GPS) - État de surface: Surfacique - Partie 7: Étalons logiciels (ISO/DIS 25178-7:2009)

**Ta slovenski standard je istoveten z: prEN ISO 25178-7**

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**ICS:**

17.040.20 Lastnosti površin Properties of surfaces

**oSIST prEN ISO 25178-7:2009 en,fr,de**



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**prEN ISO 25178-7**

August 2009

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ICS 17.040.20

English Version

**Geometrical product specifications (GPS) - Surface texture:  
Areal - Part 7: Software measurement standards (ISO/DIS  
25178-7:2009)**

Spécification géométrique des produits (GPS) - État de surface: Surfacique - Partie 7: Étalons logiciels (ISO/DIS 25178-7:2009)

Geometrische Produktspezifikation (GPS) - Oberflächenbeschaffenheit: Flächenhaft - Teil 7: Software-Normale (ISO/DIS 25178-7:2009)

This draft European Standard is submitted to CEN members for parallel enquiry. It has been drawn up by the Technical Committee CEN/TC 290.

If this draft becomes a European Standard, 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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

**Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## Foreword

This document (prEN ISO 25178-7:2009) has been prepared by Technical Committee ISO/TC 213 "Dimensional and geometrical product specifications and verification" in collaboration with Technical Committee CEN/TC 290 "Dimensional and geometrical product specification and verification" the secretariat of which is held by AFNOR.

This document is currently submitted to the parallel Enquiry.

### Endorsement notice

The text of ISO/DIS 25178-7:2009 has been approved by CEN as a prEN ISO 25178-7:2009 without any modification.

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## DRAFT INTERNATIONAL STANDARD ISO/DIS 25178-7

ISO/TC 213

Secretariat: DS

Voting begins on:  
2009-08-20

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2010-01-20

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

# Geometrical product specifications (GPS) — Surface texture: Areal —

## Part 7: Software measurement standards

*Spécification géométrique des produits (GPS) — État de surface: Surfacique —*

*Partie 7: Étalons logiciels*

ICS 17.040.20

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### ISO/CEN PARALLEL PROCESSING

This draft has been developed within the International Organization for Standardization (ISO), and processed under the **ISO-lead** mode of collaboration as defined in the Vienna Agreement.

This draft is hereby submitted to the ISO member bodies and to the CEN member bodies for a parallel five-month enquiry.

Should this draft be accepted, a final draft, established on the basis of comments received, will be submitted to a parallel two-month approval vote in ISO and formal vote in CEN.

**To expedite distribution, this document is circulated as received from the committee secretariat. ISO Central Secretariat work of editing and text composition will be undertaken at publication stage.**

**Pour accélérer la distribution, le présent document est distribué tel qu'il est parvenu du secrétariat du comité. Le travail de rédaction et de composition de texte sera effectué au Secrétariat central de l'ISO au stade de publication.**

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## ISO/DIS 25178-7

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## 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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 25178-7 was prepared by Technical Committee ISO/TC 213, *Dimensional and geometrical product specifications and verification*.

ISO 25178 consists of the following parts, under the general title *Geometrical product specification (GPS) — Surface texture: Areal*:

- Part 1: *Areal – Indication of surface texture*
- Part 2: *Areal – Terms, definitions and surface texture parameters*
- Part 3: *Areal – Specification operators*
- Part 6: *Classification of methods for measuring surface texture*
- Part 601: *Nominal characteristics of contact (stylus) instruments*
- Part 602: *Nominal characteristics of non- contact (confocal chromatic probe) instruments*
- Part 603: *Nominal characteristics of non- contact (phase- shifting interferometric) Instruments*
- Part 604: *Nominal characteristics of non-contact (coherence scanning interferometry) instruments*
- Part 7: *Software measurement standards*
- Part 701: *Calibration and measurement standards for contact (stylus) instruments*
- Part 702: *Calibration and measurement standards for non- contact (confocal chromatic probe) instruments*
- Part 703: *Calibration and measurement standards for non- contact (phase- shifting interferometry) instruments*

## Introduction

This part of ISO 25178 is a geometrical product specification (GPS) standard and is to be regarded as a general GPS standard (see ISO/TR 14638). It influences the chain link 6 of the chains of standards on surface texture.

For more detailed information of the relation of this standard to the GPS matrix model see annex B.

This part of ISO 25178 is concerned with software gauges (Type S1) and reference software (Type S2). It also defines the SDF file format for type S1 software gauges.

The SURFACE DATA FILE (SDF) format is already used by industry in particular instrument manufacturers and academia. The SDF file format as defined in this international document is a standardised sub-set of the possibilities included in the SDF file format as initially defined in the European Surfstand project and EUR15178. It is envisaged that the SDF file format could evolve (as more experience in its usage and future requirements are identified) later in a version 2.0 with additional fields and possibilities.

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