

Geometrical product specifications (GPS) - Surface texture: Areal - Part 6: Classification of methods for measuring surface texture

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NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 25178-6:2010 sisaldab Euroopa standardi EN ISO 25178-6:2010 ingliskeelset teksti.

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English Version

**Geometrical product specifications (GPS) - Surface texture:
Areal - Part 6: Classification of methods for measuring surface
texture (ISO 25178-6:2010)**

Spécification géométrique des produits (GPS) - État de
surface: Surfacing - Partie 6: Classification des méthodes
de mesurage de l'état de surface (ISO 25178-6:2010)

Geometrische Produktspezifikation (GPS) -
Oberflächenbeschaffenheit: Flächenhaft - Teil 6:
Klassifizierung von Methoden zur Messung der
Oberflächenbeschaffenheit (ISO 25178-6:2010)

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Management Centre: Avenue Marnix 17, B-1000 Brussels

Foreword

This document (EN ISO 25178-6:2010) 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 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of an identical text or by endorsement, at the latest by August 2010, and conflicting national standards shall be withdrawn at the latest by August 2010.

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Endorsement notice

The text of ISO 25178-6:2010 has been approved by CEN as a EN ISO 25178-6:2010 without any modification.

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

Part 6: Classification of methods for measuring surface texture

1 Scope

This part of ISO 25178 describes a classification system for methods used primarily for the measurement of surface texture. It defines three classes of methods, illustrates the relationships between the classes, and briefly describes specific methods.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4287:1997, *Geometrical Product Specifications (GPS) — Surface texture: Profile method — Terms, definitions and surface texture parameters*

ISO 25178-2:—¹⁾, *Geometrical product specifications (GPS) — Surface texture: Areal — Part 2: Terms, definitions and surface texture parameters*

ISO/IEC Guide 99:2007, *International vocabulary of metrology — Basic and general concepts and associated terms (VIM)*

3 Terms and definitions

3.1 General terms

For the purposes of this document, the terms and definitions given in ISO 4287, ISO 25178-2, ISO/IEC Guide 99 and the following apply.

3.1.1

measurement coordinate system

system of coordinates in which surface texture parameters are measured

NOTE 1 If the nominal surface is a plane (or portion of a plane), it is usual to use a rectangular coordinate system in which the axes form a right-handed Cartesian set, the X-axis being the direction of tracing co-linear with the mean line and the Y-axis also lying on the nominal surface, and the Z-axis being in an outward direction (from the material to the surrounding medium). The rectangular coordinate system is adopted in this part of ISO 25178 except for 3.2.1, Note 3, and 3.3.3, where a cylindrical coordinate system is described.

NOTE 2 See also *specification coordinate system* [ISO 25178-2:—].

1) To be published.