

Geometrical Product Specifications (GPS) — Indication of surface texture in technical product documentation

The European Standard EN ISO 1302:2002 has the status of a
British Standard

ICS 01.100.20; 17.040.20

National foreword

This British Standard is the official English language version of EN ISO 1302:2002. It is identical with ISO 1302:2002. It supersedes BS ISO 1302:1992 which is withdrawn.

The UK participation in its preparation was entrusted by Technical Committee TDW/4, Technical, product specification — Methodology, presentation and verification, to Subcommittee TDW/4/-/1, Technical product documentation — Specification and presentation methodology, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or by using the “Find” facility of the BSI Standards Electronic Catalogue.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

This British Standard, having been prepared under the direction of the Consumer Products and Services Sector Policy and Strategy Committee, was published under the authority of the Standards Policy and Strategy Committee on 16 May 2002

Summary of pages

This document comprises a front cover, an inside front cover, the EN ISO title page, the EN ISO foreword page, the ISO title page, pages ii to v, a blank page, pages 1 to 46, the Annex ZA (2 pages), an inside back cover and a back cover.

The BSI copyright date displayed in this document indicates when the document was last issued.

Amendments issued since publication

Amd. No.	Date	Comments

English version

Geometrical Product Specifications (GPS) - Indication of surface texture in technical product documentation (ISO 1302:2002)

Spécification géométrique des produits (GPS) - Indication des états de surface dans la documentation technique de produits (ISO 1302:2002)

Geometrische Produktspezifikation (GPS) - Angabe der Oberflächenbeschaffenheit in der technischen Produktdokumentation (ISO 1302:2002)

This European Standard was approved by CEN on 17 January 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, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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

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

CORRECTED 2002-04-10

Foreword

This document (ISO 1302:2002) 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 2002, and conflicting national standards shall be withdrawn at the latest by August 2002.

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

Endorsement notice

The text of the International Standard ISO 1302:2002 has been approved by CEN as a European Standard without any modifications.

NOTE Normative references to International Standards are listed in annex ZA (normative).

INTERNATIONAL STANDARD

**ISO
1302**

Fourth edition
2002-02-01

Geometrical Product Specifications (GPS) — Indication of surface texture in technical product documentation

*Spécification géométrique des produits (GPS) — Indication des états de
surface dans la documentation technique de produits*



Reference number
ISO 1302:2002(E)

Contents

Page

Foreword.....	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Graphical symbols for the indication of surface texture	3
5 Composition of complete graphical symbol for surface texture	5
6 Indication of surface texture parameters	6
7 Indication of manufacturing method or related information	11
8 Indication of the surface lay	12
9 Indication of machining allowance	14
10 Summarizing of indications of surface texture requirements and their values	14
11 Position on drawings and other technical product documentation	14
Annex A (normative) Proportions and dimensions of graphical symbols	20
Annex B (informative) Synoptive tables	23
Annex C (informative) Examples of indication of surface texture requirements	26
Annex D (informative) Minimum indications for unambiguous control of surface functions	30
Annex E (informative) Surface texture parameter designations	33
Annex F (informative) Evaluation length, l_n	36
Annex G (informative) Transmission band and sampling length	37
Annex H (informative) Consequences of new ISO surface texture standards	39
Annex I (informative) Former practice	41
Annex J (informative) Relation to the GPS matrix model	44
Bibliography	46