



SLOVENSKI STANDARD SIST EN ISO 7499:2025

01-februar-2025

Tehnična dokumentacija proizvodov - Enoznačno celostno prepoznavanje lastnosti (ISO 7499:2024)

Technical product documentation (TPD) - Unique integral feature identification (UIFI) (ISO 7499:2024)

Technische Produktdokumentation (TPD) - Eindeutige Identifikation integraler Geometriemerkmale (ISO 7499:2024)

Documentation technique de produits (DTP) - Identification unique des éléments intégraux (ISO 7499:2024)

Ta slovenski standard je istoveten z: EN ISO 7499:2024

[SIST EN ISO 7499:2025](https://standards.sist.net/catalog/standards/sist/20073370-6888-4f02-b9cd-030370101562/sist-en-iso-7499-2025)

ICS:

01.110	Tehnična dokumentacija za izdelke	Technical product documentation
--------	-----------------------------------	---------------------------------

SIST EN ISO 7499:2025

en,fr,de

EUROPEAN STANDARD

EN ISO 7499

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2024

ICS 01.110

English Version

Technical product documentation (TPD) - Unique integral feature identification (UIFI) (ISO 7499:2024)

Documentation technique de produits (DTP) -
Identification unique des éléments intégraux (ISO
7499:2024)

Technische Produktdokumentation (TPD) - Eindeutige
Identifikation integraler Geometriemerkmale (ISO
7499:2024)

This European Standard was approved by CEN on 8 November 2024.

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 CEN-CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.

<https://standards.iteh.ai>
[SIST EN ISO 7499:2025](https://standards.iteh.ai)

<https://standards.iteh.ai/catalog/standards/sist/2c075540-0d8b-4fe2-b9ed-65c54b18f5b2/sist-en-iso-7499-2025>



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword.....	3

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[SIST EN ISO 7499:2025](https://standards.iteh.ai/catalog/standards/sist/2c075540-0d8b-4fe2-b9ed-65c54b18f5b2/sist-en-iso-7499-2025)

<https://standards.iteh.ai/catalog/standards/sist/2c075540-0d8b-4fe2-b9ed-65c54b18f5b2/sist-en-iso-7499-2025>

European foreword

This document (EN ISO 7499:2024) has been prepared by Technical Committee ISO/TC 10 "Technical product documentation" in collaboration with CCMC.

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 May 2025, and conflicting national standards shall be withdrawn at the latest by May 2025.

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

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Endorsement notice

The text of ISO 7499:2024 has been approved by CEN as EN ISO 7499:2024 without any modification.

[SIST EN ISO 7499:2025](https://standards.iteh.ai/catalog/standards/sist/2c075540-0d8b-4fe2-b9ed-65c54b18f5b2/sist-en-iso-7499-2025)

<https://standards.iteh.ai/catalog/standards/sist/2c075540-0d8b-4fe2-b9ed-65c54b18f5b2/sist-en-iso-7499-2025>



**International
Standard**

ISO 7499

**Technical product documentation
(TPD) — Unique integral feature
identification (UIFI)**

*Documentation technique de produits (DTP) — Identification
unique des éléments intégraux*

**First edition
2024-11**

iteh Standards
(<https://standards.iteh.ai>)
Document Preview

[SIST EN ISO 7499:2025](https://standards.iteh.ai/catalog/standards/sist/2c075540-0d8b-4fe2-b9ed-65c54b18f5b2/sist-en-iso-7499-2025)

<https://standards.iteh.ai/catalog/standards/sist/2c075540-0d8b-4fe2-b9ed-65c54b18f5b2/sist-en-iso-7499-2025>

ISO 7499:2024(en)

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[SIST EN ISO 7499:2025](https://standards.iteh.ai/catalog/standards/sist/2c075540-0d8b-4fe2-b9ed-65c54b18f5b2/sist-en-iso-7499-2025)

<https://standards.iteh.ai/catalog/standards/sist/2c075540-0d8b-4fe2-b9ed-65c54b18f5b2/sist-en-iso-7499-2025>

**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2024

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

ISO 7499:2024(en)

Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Graphical symbols	2
4.1 Graphical symbol for indication of the unique integral feature identifier.....	2
4.2 Graphical symbols for enumeration direction of repeated features.....	2
5 Identification of integral features	2
5.1 General.....	2
5.2 Alpha-numerical label for integral features.....	3
5.2.1 General.....	3
5.2.2 Single or repeated capital letter.....	3
5.2.3 Prefixed capital letter.....	3
5.2.4 Postfixed enumerated capital letter.....	4
5.3 Datum feature identifier as feature identifier.....	5
5.4 Indication of unique integral feature identifier in combination with specifications.....	6
5.5 Repeated features.....	6
5.5.1 Individual identification of repeated features.....	6
5.5.2 Simplified enumeration of repeated features.....	7
5.6 Portions of integral features.....	11
5.7 Compound features.....	12
Annex A (normative) Proportions and dimensions of graphical symbols	16
Bibliography	19

Document Preview

[SIST EN ISO 7499:2025](https://standards.iteh.ai/catalog/standards/sist/2c075540-0d8b-4fe2-b9ed-65c54b18f5b2/sist-en-iso-7499-2025)

<https://standards.iteh.ai/catalog/standards/sist/2c075540-0d8b-4fe2-b9ed-65c54b18f5b2/sist-en-iso-7499-2025>

ISO 7499:2024(en)

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 10, *Technical product documentation*, Subcommittee SC 1, *Basic conventions*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/SS F01, *Technical drawings*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

<https://standards.iteh.ai/catalog/standards/sist/2c075540-0d8b-4fe2-b9ed-65c54b18f5b2/sist-en-iso-7499-2025>

ISO 7499:2024(en)

Introduction

This document is a technical product documentation (TPD) standard and is a complementary standard.

Modern computer-aided design (CAD) systems already provide built-in systems for the unambiguous identification of each integral feature of a model. This identifier will often vary between CAD systems, but typically comprises a long and complex code, which is normally difficult to read by humans and is therefore impractical.

A datum feature identifier, indicated in a datum feature indicator on an integral feature of a part specified in a TPD in accordance with ISO 5459, is a unique integral feature identifier. The name can be used to reference that specific integral feature. However, all integral features of a part will not be indicated with a datum feature identifier. This complicates the identification of integral features other than datum features.

Drawings are used in a variety of situations, e.g. design, manufacturing and verification (see ISO/TS 21619). In many cases, it can be difficult to unambiguously communicate a reference to a specific integral feature, either orally or in writing, in different documents when the part is not described in full detail in the drawing.

Depictions of the part are not always the most efficient way to communicate. Using a written identification that unambiguously identifies each integral feature on the part can be useful for the following purposes (the list is non-exhaustive):

- ease verbal communication between stakeholders, e.g. between a customer and a supplier, or between a designer and a manufacturer or a metrologist;
- simplify the preparation of a nomenclature drawing of the part (human-readable name of the integral features);
- ease the kinematic description of the part by stating what function an integral feature will have in different product or part states, e.g. if it is a clearance or an interface surface;
- referencing surfaces in documents, e.g. standard operating procedures (SOPs), measurement descriptions, measurement reports, nonconformities, customer complaint descriptions, failure investigations, risk analyses, failure mode and effects analyses (FMEA), tolerance stack-up calculations, change requests.

Furthermore, unique integral feature identifiers can be used to simplify a TPD, e.g. when a special requirement or subsequent machining, finishing or treatment applies to a group of different integral features.

Human-readable identifiers for integral features are needed to ease the communication between stakeholders and to clarify to which integral feature a specification applies, i.e. establish human-understandable traceability, and to provide traceability between the drawing and other TPD. CAD vendors are encouraged to implement a harmonized system of unique integral feature identifiers to support the implementation of the benefits described in this introduction and in this document.