BS EN ISO 4172:2024

BSI Standards Publication

Technical product documentation (TPD) — Construction documentation — Drawings for the assembly of prefabricated structures

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National foreword

This British Standard is the UK implementation of EN ISO 4172:2024. It is identical to ISO 4172:2024. It supersedes BS EN ISO 4172:1997, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee B/555, Construction design, modelling and data exchange.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Technische Produktdokumentation (TPD) - Baukonstruktionszeichnungen - Zeichnungen für den Zusammenbau vorgefertigter Teile (ISO 4172:2024)

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European foreword

This document (EN ISO 4172:2024) 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of an identical text or by endorsement, at the latest by September 2024, and conflicting national standards shall be withdrawn at the latest by September 2024.

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.

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Endorsement notice

The text of ISO 4172:2024 has been approved by CEN as EN ISO 4172:2024 without any modification.

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Foreword

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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).

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This document was prepared by Technical Committee ISO/TC 10, *Technical product documentation*, Subcommittee SC 8, *Construction documentation*, 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).

This third edition cancels and replaces the second edition (ISO 4172:1991), which has been technically revised.

The main changes are as follows:

— update of normative references;

— provision of wider levels of drawings;

— replacement of the term “location drawings” by “general arrangement drawings”.

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.

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Introduction

This document sets out the requirements for representing prefabricated structures with assembly drawings. Prefabricated structures are components that are more likely to be considered as products comprising assemblies, rather than traditional components.

The purpose of this document is to aid with the following aspects:

— defining the drawing types and their hierarchy clearly;

— providing the technical rules within each type of drawing;

— giving guidelines for the application of representation techniques.

Those who draw prefabricated structures are encouraged to think about the methods they use to collect, demonstrate and disseminate product information to all stakeholders, including designers, engineers, manufacturers and contractors. Product information supports stakeholders to recognize product definitions, relations and other requirements identified within the life cycle. It is recognized that the drawing of products, using common lines, symbols and other graphic representations, aids in the organization of the information on the basis of concepts and relationships. Therefore, this document is intended to be adopted in coordination with ISO 7519 and other applicable standards.

ISO 7519 provides a method for organizing presentation approaches for a building, system, assembly, component or part, therefore providing comprehensive information hierarchically. Such a delivery method is advanced to regularize the flow of information within the supply chain. It does this by specifying a clear scope for requirements or specific objects using building information modelling (BIM) or other computer-aided design and drafting (CAD) applications, thereby enhancing the effectiveness of the processes involved by presenting unambiguous and sufficient data.

This document establishes the rules for prefabricated structures following the principles in ISO 7519 while maintaining symbolic representation applicable in the built environment sector. International Standards relating to technical product documentation developed by ISO/TC 10, as well as BIM International Standards developed by ISO/TC 59/SC 13, are considered helpful in adopting this document.

The figures included in this document are intended to illustrate the text and provide examples of the related technical drawing specification. These figures are not fully dimensioned and toleranced, showing only the relevant general principles. In all figures, the leader lines using an arrow and text ending with “type” and numbers indicate the line types used for the representations. They are not elements that are presented in a construction drawing.

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