

SINGAPORE STANDARD

CP 83 : Part 4 : 2001

(ICS 01.100.30)

CODE OF PRACTICE FOR

Construction computer-aided design (CAD)

Part 4 : CAD drafting conventions

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Foreword

This code was prepared by the Technical Committee on Construction Industry IT Standard under the direction of the Information Technology Standards Committee.

This code was prepared with reference to some parts of, SS CP 6 : 1978 – ‘Code of practice for building drawing’.

The use of computer-aided design (CAD) has been extensive and is still growing in the construction industry in Singapore. The ability of CAD to allow reuse and sharing of information will contribute greatly to the productivity in building design and construction, which involves extensive information and co-ordination between all parties in the building industry.

CAD files in the form of digital drawings are now a common medium of data exchange between all parties in building industry and the building authorities. The development of a set of CAD drafting conventions for use by all bodies/parties is a component in fully realising the potential of CAD for more efficient work and communication.

This code establishes a set of drafting conventions to be used by all parties in building industry who are involved in preparing and using technical documentation by means of CAD systems. It is envisaged that the set of drafting conventions in this code will be revised and updated regularly to adjust to changes in CAD technology.

This code has made reference to input from various standards organisations. Much of the information in this code has also been contributed by consulting firms, contractors and members of professional institutions. Acknowledgement is made to these firms that have given their permission to use the information in this code.

NOTE

- 1. Singapore Standards are subject to periodic review to keep abreast of technological changes and new technical developments. The revisions of Singapore Standard are announced through the issue of either amendment slips or revised editions.*
- 2. Compliance with a Singapore Standard does not exempt users from legal obligations.*

Code of practice for construction computer-aided design (CAD) Part 4 – CAD drafting conventions

1 Scope and objectives

The scope of this code is to recommend a set of drawing conventions to be used by all parties in the building industry in the preparation of drawings.

The objectives of this code are:

- To provide a set of common drafting conventions for the building industry.
- To facilitate a common understanding and interpretation of information in drawings by different users of the building industry.
- To facilitate easy and efficient exchange of information.

2 Drafting conventions

Drafting conventions consist of hatch patterns, drawing sheet sizes, title blocks, abbreviations, etc. They are grouped under the following sub-headings and can be found in Annex A.

- Sheet sizes and title block
- Plot scales
- Hatch patterns for material representation
- Line type representation
- Abbreviations
 - Architectural
 - Civil & Structural
 - Mechanical
 - Electrical
 - Miscellaneous
 - Units of measure

Drafting conventions in this code are those commonly used by the construction industry. In-house conventions can be used for more specific areas of works. However, these in-house conventions should be documented and communicated between different parties of a particular project.