

**SINGAPORE STANDARD**  
**Code of practice for construction**  
**computer-aided design (CAD)**  
– Part 2 : CAD symbols

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design (CAD)**

– Part 2 : CAD symbols

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The Technical Committee acknowledges the contribution of the following consultants from the Singapore Polytechnic in preparing this standard:

1. Mr Chew Sin Fye
2. Mr Chandrashekhar G Hampiholi
3. Mr Goh Siak Koon

The Technical Committee also acknowledges the contribution of Dr Tan Kee Wee, Senior Manager from the Building and Construction Authority in helping to co-ordinate the preparation of this standard as well as the contribution of Mr Ben Thum in helping to co-ordinate the review of this standard.

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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 first edition of this code was approved in January 2000 but its publication was withheld due to an immediate review of the code. Such a review was done because of feedback from users and vendors as a result of the implementation of the CAD Symbols Library Software.

This revised Part 2 of the code contains only symbols. Abbreviations and other drawing conventions have been removed to form Part 4 of the code. All architectural symbols have been simplified to ensure that they can be plotted on drawing paper at 1:100 scale. Furthermore, symbol naming and CAD layers have been made more consistent.

This revised code was also prepared with reference to some parts of 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 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 symbols for use by all bodies/parties is a component in fully realising the potential of CAD for more efficient work and communications.

This code establishes a set of generic symbols 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 generic CAD symbols in this code will be revised and updated regularly to adjust to changing in CAD technology.

Reference was made to symbol libraries from various standards organisations. Many symbols in this code are also contributed by consulting firms, contractors and members of professional institutions. Acknowledgement is made to these organisations that have given their permission to use the information in this code.

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

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## **Code of practice for construction computer-aided design (CAD) – Part 2 : CAD symbols**

### **1 Scope and objectives**

This code recommends a common set of symbols to be used by all parties in the building industry in the preparation of drawings.

The objectives of this code aim to do the following:

- To provide a standard set of 2D graphical symbols to represent entities of building components for the building industry.
- To facilitate common understanding and interpretation of information in drawings by different users of the building industry.
- To facilitate easy and efficient exchange of information.