

SINGAPORE STANDARD

CP 83 : Part 5 : 2001

(ICS 35.240.10)

CODE OF PRACTICE FOR

Construction computer-aided design (CAD)

Part 5 : Colour and linetype

Published by
Singapore Productivity and Standards Board
2 Bukit Merah Central
Singapore 159835
PSB Website: www.psb.gov.sg
Standards Website: www.standards.org



PSB
SINGAPORE

SINGAPORE STANDARD

CP 83 : Part 5 : 2001

(ICS 35.240.10)

CODE OF PRACTICE FOR

Construction computer-aided design (CAD)

Part 5 : Colour and linetype

All rights reserved. Unless otherwise specified, no part of this Singapore Standard may be reproduced or utilised in any form or by any means, electronic or mechanical, including photocopying and microfilming, without permission in writing from the Singapore Productivity and Standards Board at the address below:

Director
Centre for Standardisation
Singapore Productivity and Standards Board
2 Bukit Merah Central
Singapore 159835
Telephone: 2786666 Telefax: 2786667
Email: cfs@psb.gov.sg

ISBN 9971-67-867-5

Contents

	Page
Foreword _____	6

CODE OF PRACTICE

1	Scope _____	7
2	Purpose _____	7
3	Definitions _____	7
4	Concept _____	8
5	Existing standards _____	8
6	New colour standard _____	9
7	Linetype standard _____	11
8	Layer, colour and linetype standard _____	12

ANNEXES

A	List of layers, colours and linetype in alphabetical order _____	13
B	Colour numbers for CAD file formats _____	19
C	Additional layer names _____	20

TABLES

1	Example of colours based on CP 6 _____	8
2	Colours used by Approving Authorities _____	8
3	The 8 basic colours in CAD software _____	9
4	Basic and alternate colours _____	9
5	New colours for Approving Authorities _____	10
6	Colours for architectural and C & S _____	10
7	Colours for M & E _____	11
8	Linetype standard _____	11

Foreword

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

As in most aspects of CAD drawing, the current usage of colour and linetype in CAD drawings is very much related to the manual drafting methods. Manual drawings are almost entirely created in monochrome with different line widths while CAD drawings make use of different colours to denote different line widths.

With the availability of 256 or more colours in CAD programs and 2 dozen or more linetypes, and the non-uniformity of different CAD software in handling colours and linetypes, CAD drawings are complicated and hence non-productive. This code aims to simplify the use of colour and linetype in the process of creating CAD drawings.

This code also lists the additional layers to cater to the requirements of M & E users. Several of the important layer names which had not been defined in CP 83 : Part 1 surfaced during the course of developing this code and are now covered under Annex C of this code.

This code was prepared with reference to following Singapore Standards:

1. CP 6 : 1978 Code of practice for building drawings
2. CP 83 : - Code of practice for computer-aided design (CAD)
Part 1 : 2000 Organisation and naming of CAD layers

NOTE

1. *Singapore Standards are subject to periodic review to keep abreast of technological changes and new technical developments. The revisions of Singapore Standards 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 5 : Colour and linetype

1 Scope

This code is to establish the general principles and formats for usage of colour and linetype for construction computer-aided design (CAD) files.

2 Purpose

The purpose of this code is to enhance uniformity in CAD files for the construction industry in Singapore by recommending a set of colour and linetype standards for different disciplines.

3 Definitions

For the purposes of this code, the following definitions shall apply:

3.1 CAD file

CAD file is a digital file containing CAD models or related information.

3.2 Originator

Originator is the individual/company/organisation responsible for creating the CAD file.

3.3 Layer name

Layer name refers to the layer names as specified in CP 83 : Part 1.

3.4 Colour

Colour refers to the colour used for entities in a CAD drawing.

3.5 Linetype

Linetype refers to the linetype used for entities in a CAD drawing. This consists primarily of only dashes and/or dots.

3.6 DWG format

The file format commonly used by the majority of CAD software particularly for exchange of information.