

SINGAPORE STANDARD
SS 580 : 2012
(ICS 91.080.99)

CODE OF PRACTICE FOR
Formwork

(Formerly CP 23)

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Ministry of Manpower
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Singapore Institute of Technology
SIPM Consultants Pte Ltd*

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Foreword

This Singapore Standard Code of Practice was prepared by the Working Group for review of CP 23 under the direction of the Technical Committee on Construction Management. The Technical Committee is under the purview of the Building and Construction Standards Committee.

This standard is a revision of CP 23 : 2000 'Code of practice for formwork'.

With the adoption of the Eurocodes as well as the introduction of Workplace Safety and Health Regulations, it is important to align this Code with the current regulations and industry practices. One major outcome of this alignment is the increase in the load safety factor to 2.0, which shall also be used for all testing.

Some of the design options were simplified, such as the lateral pressures on formwork due to fresh concrete. Loadings due to concreting were standardised. Charts and tables for easy read-off of permissible compressive stresses and lateral torsional buckling stresses were included.

In keeping with the move towards being less prescriptive and more performance oriented, specific details of bracings and other practical details dependent on site conditions have been generalised or omitted. Terminology has been brought more in line with local and international usage.

The importance of safety, particularly in regard to working at height, and risk assessment in design and construction of formwork is emphasised by the inclusion of recommended safe work practices in the appropriate sections of the Code.

In preparing this Code, reference was made to the following publications:

1. SS EN 1990:2008 Eurocodes – Basis of structural design
2. SS EN 1992-1-1:2008 Design of concrete structures Part 1-1: General rules and rules for buildings
3. SS EN 1993-1-1:2010 Eurocode 3 – Design of steel structures. Part 1-1 : General rules and rules for buildings
4. BS EN 12812:2008 Falsework – Performance requirements and general design
5. Workplace Safety and Health (Construction) Regulations 2007 Part IX Formwork Structures

Acknowledgement is made for the use of information from the above publications.

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

NOTE

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

Code of practice for formwork

1 Scope

The recommendations of this Code apply to the design, erection, use, alteration and dismantling of formwork structure for any reinforced concrete works.

2 Normative references

2.1 The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

SS CP 14	Code of practice for scaffolds
SS EN 1990	Eurocodes – Basis of structural design
SS EN 1992-1-1	Design of concrete structures - Part 1-1: General rules and rules for buildings
SS EN 1993-1-1	Eurocode 3 - Design of steel structures - Part 1-1: General rules and rules for buildings

2.2 In Singapore, local Acts and Regulations are applicable. The list of relevant Acts and Regulations in the bibliography should not be considered as exhaustive. Latest version of the Acts and Regulations shall apply.