SINGAPORE STANDARD

CP 23 : 2000

(ICS 91.080.01)

CODE OF PRACTICE FOR

Formwork

(Incorporating Erratum No. 1, October 2000)

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Foreword

This Code of Practice was prepared by the Technical Committee on Construction Practice under the direction of the Construction Industry Practice Committee. It is a revision of CP 23 : 1982 - 'Code of Practice for Formwork'.

The importance of safety in design and construction of formwork is emphasised by the inclusion of recommended safe work practices in the appropriate sections of the code. This is to avoid formwork failure.

In preparing this code, the Technical Committee appreciated the fact that specifying tolerance for concrete surfaces more exacting than needed may unnecessarily hinder the construction progress and increase in construction costs. Hence, the Technical Committee deliberated at length to update the tolerance to make it more practical and universal.

In the design aspect of this code, loading guidelines from established standards and publications were adopted. Design approaches have also included ultimate strength option to allow for greater flexibility in design methods.

In preparing this code, information from the following publications was used to update the code with modification to suit the local context:

1. AS 3600 : 1994 Concrete Structures

2. AS 3610 : 1995 Formwork for concrete

3. BS 5975 : 1996 Code of Practice for Falsework

4. Construction Industry Research and Information CIRIA Report 108

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

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 formwork

Section One – General

1.1 Scope

The recommendations of this code apply to the design, fabrication, erection and stripping of formwork and formwork for any reinforced concrete structures.

NOTE 1 – If surface finish or colour uniformity is important, this code should be read in conjunction with AS 3610 : 1995, "Formwork for concrete", which sets out in detail requirements for formwork to achieve various degrees of surface finish and colour uniformity.

NOTE 2 – The titles of the publications referred to in this standard are listed at the end of the standard.

1.2 New materials or methods

This code shall not be interpreted to prevent the use of materials or of methods of design or construction not specifically referred to herein.

1.3 Definitions

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

1.3.1 Approved

According to the context, approved either by the Engineer/Architect or the relevant Statutory Authority.

1.3.2 Architect

A person who is registered with the Board of Architects in Singapore.

1.3.3 Bracing

Secondary structural members which normally do not support gravity loads but are required to provide lateral stability to other structural members or to transfer horizontal loads to support.

1.3.4 Contractor

The person, persons or organisation agreeing under a contract to execute the work.

1.3.5 Designer

The person, persons or organisation responsible for the design of the formwork.

1.3.6 Diagonal bracing

Supplementary formwork member designed to resist lateral loads.