

SINGAPORE STANDARD

CP 43 : 1988

(ICS 91.060.20; 91.100.20)

CODE OF PRACTICE FOR

**The installation of concrete
interlocking roofing tiles**

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**CODE OF PRACTICE FOR THE INSTALLATION
OF CONCRETE INTERLOCKING ROOFING TILES**

FOREWORD

The Code of Practice for Installation of Concrete Interlocking Roofing Tiles is a sequel to SS 310 'Specification for Concrete Interlocking Roofing Tiles' prepared by the Technical Committee under the authority of the Building and Construction Industry Standards Committee.

This Code seeks to establish basic ground rules for the Installation of Concrete Roofing Tiles and other related components of the roofing system and for their reasonable performance under normal applications. The ultimate performance of the total roofing system with concrete roofing tiles will however still rely on the integrity of design and detailing, which is left very much to the designer, in order not to be too restrictive in creative applications.

An effort is made to present the Code in the simplest form as possible. However, professional consultation would be necessary in establishing the pitch of roof ideally suited for the location.

Acknowledgement is made for the use of information from AS 1758 : 1975 'Fixing of Concrete Interlocking Roofing Tiles (without weathering check)'.

NOTE

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

1. SCOPE

This Code of Practice establishes the basic rules for the installation of concrete interlocking roofing tiles.

2. GENERAL

2.1 Application. The fixing methods and other technical requirements described here apply only to situations of normal application.

2.2 Performance. This Code provides for minimum acceptable standard for the installation of concrete interlocking roofing tiles to ensure reasonable performance of components of finished roof.

2.3 Preparatory Works. All chasings, cutting of grooves raking for overflashings and all preparatory work of underflashing and fixing of gutters shall be completed and tilting battens shall be fixed in position before tiles are laid.

3. MATERIALS AND COMPONENTS

3.1 Roofing Tiles

3.1.1 Concrete interlocking roofing tiles. Tiles shall comply with the requirements of Singapore Standard 310.

3.1.2 Accessory tiles and special tiles. All accessory and special tiles for roofing such as hip, valley, gable and ridge tiles shall be separately specified and used whenever practical to do so.

3.2 Nails, Clips And Wires. Nails, clips and wires shall be of hot-dip galvanised or of non-ferrous metals. Galvanizing shall be 300 – 500 g/m² of zinc coating.

Nails shall be clout-headed, not less than 3.0 mm dia. and of sufficient length to penetrate not less than 20 mm into the battens, but shall not protrude beyond the depth of battens.

Wires shall not be less than 1.0 mm dia. (20 SWG).

Clips shall be acceptable profile to provide reasonable fit to the fixation of tiles.

3.3 Mortar

3.3.1 Materials for mortar shall be as follows:

Cement : Portland cement complying with SS 26.

Water : Water shall be clean and free of soluble or suspended external matter.

Sand : Sand shall be clean, washed sand for general purpose mortar complying with BS 1200.