

**SINGAPORE STANDARD**

# **Code of practice for design of concrete structures for retaining aqueous liquids**

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## Foreword

This code was prepared by the Technical Committee on Structural Engineering Practice under the direction of the Construction Industry Practice Committee.

Most of the recommendations are as given in BS 8007:1987. There are no major changes except that those clauses applicable particularly to UK conditions have been revised to reflect local conditions.

CP 65 is referred to in this code instead of BS 8110, to which BS 8007 frequently refers. After approval in November 1998, SS CP 73 was not printed as many of its clauses referred to SS CP 65 Parts 1 and 2, which were not released then.

This Singapore Standard is an adoption of BS 8007 : 1987 and was implemented with the permission of the British Standards Institution, 389, Chiswick High Road, London W4 4AL, United Kingdom.

Acknowledgment is made for the use of the information.

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 design of concrete structures for retaining aqueous liquids

## Section One – General

### 1.1 Scope

This Singapore Standard provides recommendations for the design and construction of normal reinforced and prestressed concrete structures used for the containment or exclusion of aqueous liquids. The term 'liquid' in this code includes any contained or excluded aqueous liquids but excludes aggressive liquids. The code does not cover dams, pipes, pipelines or lined structures. The term 'structure' is used herein for the vessel that contains or excludes the liquid, and includes tanks, service reservoirs, swimming pools and other vessels. This code covers the design of concrete basements to resist water penetration. Guidance on damp-proofing is available in BS 8102:1990.

NOTE 1 – The design of structures of special form or in unusual circumstances is a matter for the judgement of the designer.

NOTE 2 – For further reading, reference can be made to Civil engineering specification for the water industry, 2<sup>nd</sup> edition, 1984 available from the Water Authorities Association and Design of liquid retaining concrete structures, 2<sup>nd</sup> edition, 1992 available from Edward Arnold.