

SINGAPORE STANDARD

**Singapore National Annex to Eurocode 2 :
Design of concrete structures**

– Part 1-1 : General rules and rules for buildings

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National Foreword

This National Annex (NA) was prepared by the Technical Committee on Building Structure and Sub-structure under the purview of the Building and Construction Standards Committee.

This standard is an adoption of UK National Annex to Eurocode 2 : Design of concrete structures – Part 1-1 : General rules and rules for buildings and is implemented with the permission of British Standards Publishing Ltd.

In preparing this standard, reference was also made to PD 6687 : 2006 – Background paper to the UK National Annexes to BS EN 1992-1.

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

This Singapore NA contains information on those parameters which are left open in EN 1992-1-1 for national choice, known as nationally determined parameters. The Singapore NA is to be read in conjunction with the SS EN 1992-1-1 : 2008 – Eurocode 2 : Design of concrete structures – Part 1-1 : General rules and rules for buildings.

As
amended
Sep 10

EN 10080 'Steel for the reinforcement of concrete – Weldable reinforcing steel – General', as referenced in SS EN 1992-1-1, does not include all requirements to fully specify reinforcing steels. EN 10080 should be used in conjunction with the following Singapore Standards, in which full details of the performance characteristics are specified

SS 560:2010, *Specification for steel for the reinforcement of concrete – Weldable reinforcing steel – Bar, coil and decoiled product*

SS 561:2010, *Specification for steel fabric for the reinforcement of concrete*

At the time of publication, this standard is expected to be used as a reference in the Building and Construction Authority's 'Approved Document – Acceptable Solutions'.

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.

NOTE

1. *Singapore Standards (SSs) and Technical References (TRs) are reviewed periodically to keep abreast of technical changes, technological developments and industry practices. The changes are documented through the issue of either amendments or revisions.*
2. *An SS or TR is voluntary in nature except when it is made mandatory by a regulatory authority. It can also be cited in contracts making its application a business necessity. Users are advised to assess and determine whether the SS or TR is suitable for their intended use or purpose. If required, they should refer to the relevant professionals or experts for advice on the use of the document. Enterprise Singapore shall not be liable for any damages whether directly or indirectly suffered by anyone or any organisation as a result of the use of any SS or TR.*
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Singapore National Annex to SS EN 1992-1-1 : 2008 – Eurocode 2 : Design of concrete structures – Part 1-1 : General rules and rules for buildings

NA.1 Scope

NA.1.1 This Annex gives:

a) the Singapore decisions for the Nationally determined parameters described in the following Subclauses of SS EN 1992-1-1:

– 2.3.3 (3)	– 4.4.1.3 (4)	– 6.4.3 (6)	– 9.2.1.3 (1)	– 11.3.5 (1)P
– 2.4.2.1 (1)	– 5.1.3 (1)P	– 6.4.4 (1)	– 9.2.1.4 (1)	– 11.3.5 (2)P
– 2.4.2.2 (1)	– 5.2 (5)	– 6.4.5 (3)	– 9.2.2 (4)	– 11.3.7 (1)
– 2.4.2.2 (2)	– 5.5 (4)	– 6.4.5 (4)	– 9.2.2 (5)	– 11.6.1 (1)
– 2.4.2.2 (3)	– 5.6.3 (4)	– 6.5.2 (2)	– 9.2.2 (2)	– 11.6.1 (2)
– 2.4.2.3 (1)	– 5.8.3.1 (1)	– 6.5.4 (4)	– 9.2.2 (7)	– 11.6.2 (1)
– 2.4.2.4 (1)	– 5.8.3.3 (1)	– 6.5.4 (6)	– 9.2.2 (8)	– 11.6.4.1 (1)
– 2.4.2.4 (2)	– 5.8.3.3 (2)	– 6.8.4 (1)	– 9.3.1.1 (3)	– 12.3.1 (1)
– 2.4.2.5 (2)	– 5.8.5 (1)	– 6.8.4 (5)	– 9.5.2 (21)	– 12.6.3 (2)
– 3.1.2 (2)P	– 5.8.6 (3)	– 6.8.6 (1)	– 9.5.2 (2)	– A.2.1 (1)
– 3.1.2 (4)	– 5.10.1 (6)	– 6.8.6 (3)	– 9.5.2 (3)	– A.2.1 (2)
– 3.1.6 (1)P	– 5.10.2.1 (1)P	– 6.8.7 (1)	– 9.5.3 (3)	– A.2.2 (1)
– 3.1.6 (2)P	– 5.10.2.1 (2)	– 7.2 (2)	– 9.6.2 (1)	– A.2.2 (2)
– 3.2.2 (3)P	– 5.10.2.2 (4)	– 7.2 (3)	– 9.6.3 (1)	– A.2.3 (1)
– 3.2.7 (2)	– 5.10.2.2 (5)	– 7.2 (5)	– 9.7 (1)	– C.1 (1)
– 3.3.4 (5)	– 5.10.3 (2)	– 7.3.1 (5)	– 9.8.1 (3)	– C.1 (3)
– 3.3.6 (7)	– 5.10.8 (2)	– 7.3.2 (4)	– 9.8.2.1 (1)	– E.1 (2)
– 4.4.1.2 (3)	– 5.10.8 (3)	– 7.3.4 (3)	– 9.8.3 (1)	– J.1 (2)
– 4.4.1.2 (5)	– 5.10.9 (1)P	– 7.4.2 (2)	– 9.8.3 (2)	– J.2.2 (2)
– 4.4.1.2 (6)	– 6.2.2 (1)	– 8.2 (2)	– 9.8.4 (1)	– J.3 (2)
– 4.4.1.2 (7)	– 6.2.2 (6)	– 8.3 (2)	– 9.8.5 (3)	– J.3 (3)
– 4.4.1.2 (8)	– 6.2.3 (2)	– 8.6 (2)	– 9.10.2.2 (2)	
– 4.4.1.2 (13)	– 6.2.3 (3)	– 8.8 (1)	– 9.10.2.3 (3)	
– 4.4.1.3 (1)P	– 6.2.4 (4)	– 9.2.1.1 (1)	– 9.10.2.3 (4)	
– 4.4.1.3 (3)	– 6.2.4 (6)	– 9.2.1.1 (3)	– 9.10.2.4 (2)	

b) the Singapore decision on the status of SS EN 1992-1-1 informative annexes; and

c) references to non-contradictory complementary information.