

SINGAPORE STANDARD

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structural design**

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National Foreword

This National Annex was prepared by the Technical Committee on Building Structure and Sub-structure under the purview of the Building and Construction Standards Committee. It is revision of the Singapore National Annex (NA) to SS EN 1990:2008 incorporating requirements for basis of design for bridges in NA.2.3.

This standard is an adoption of the UK National Annex (NA to BS EN 1990:2002 + A1:2005) for Eurocode – Basis of structural design and is implemented with the permission of the British Standards Publishing Ltd.

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

This Singapore NA contains information on those parameters which are left open in EN 1990 for national choice, known as nationally determined parameters. The Singapore NA is to be read in conjunction with the SS EN 1990 : 2008 – Eurocode 0 : Basis of structural design.

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.*
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Singapore National Annex to SS EN 1990 : 2008 – Eurocode – Basis of structural design

NA.1 Scope

This National Annex gives nationally determined parameters for the following clauses of SS EN 1990:2008:

- a) The nationally determined parameters for the clauses below apply to buildings and civil engineering works (see NA.2.1).
 - A1.1 (1)
- b) The nationally determined parameters for the clauses below apply to buildings (see NA.2.2).
 - A1.2.1 (1) NOTE 2
 - A1.2.2 (Table A1.1) NOTE
 - A1.3.1 (1) [Tables A1.2(A) to (C)] NOTE
 - A1.3.1 (5) NOTE
 - A1.3.2 (Table A1.3)
 - A1.4.2 (2) NOTE
- c) Nationally determined parameters for the clauses below apply to bridges (see NA.2.3).
 - A2.1.1(1) NOTE 3
 - A2.2.1 (2) NOTE 1
 - A2.2.2 (1), (3), (4), (6)
 - A2.2.3 (2), (3), (4)
 - A2.2.4 (1), (4)
 - A2.2.6 (1) NOTE 1, NOTE 2, NOTE 3
 - A2.3.1 (1), (5), (7), (8)
 - A2.3.2 (1), Table A2.5 NOTE
 - A2.4.1 (1) NOTE 1, Table A2.6 NOTE 2, (2) NOTE
 - A2.4.3.2 (1) NOTE
 - A2.4.4.1 (1) NOTE 3
 - A2.4.4.2.1 (4)P NOTE
 - A2.4.4.2.2 Table A2.7 NOTE
 - A2.4.4.2.2 (3)P NOTE
 - A2.4.4.2.3 (1) NOTE
 - A2.4.4.2.3 (2) NOTE, (3) NOTE
 - A2.4.4.2.4 (2) NOTE, Table A2.8 NOTE 3
 - A2.4.4.2.4 (3) NOTE
 - A2.4.4.3.2 (6) NOTE

NOTE – Clauses applicable for cranes and machinery; silos and tanks, etc. will be added by amending the National Annex at appropriate future dates.

- d) Guidance on use of the Informative Annexes B, C and D for buildings and civil engineering works. (See NA.3.1.)
- e) Guidance on use of the Informative Annexes B, C and D for bridges. (See NA.3.2.)
- f) References to non-contradictory complementary information applicable to buildings and civil engineering works. (See NA.4.1.)
- g) References to non-contradictory complementary information applicable to bridges. (See NA.4.2.)