

SINGAPORE STANDARD

**Singapore National Annex to Eurocode 1 :
Actions on structures**

– Part 1-7 : General actions – Accidental actions



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Contents

Page

National Foreword _____	6
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CLAUSES

NA.1 Scope _____	7
NA.2 Nationally determined parameters _____	7
NA.3 Decision on the status of the informative annexes _____	18
NA.4 References to non-contradictory complementary information _____	18

TABLES

NA.1 Equivalent static design forces due to vehicular impact on members supporting bridges over or adjacent to roads _____	9
NA.2 Influence of class of road below bridge _____	10
NA.3 Minimum traffic flows to be used to determine F_2 _____	10
NA.4 Influence of speed limit under bridge _____	11
NA.5 Influence of junctions _____	11
NA.6 Influence of clearance _____	11
NA.7 Number of columns for each support type _____	12
NA.8 Deck stability _____	12
NA.9 Equivalent static design forces F_{dx} due to impact on superstructures _____	14
NA.10 Equivalent static design forces F_{dy} due to impact on superstructures _____	14

ANNEX

A (informative) Guidelines on Class A structures over and alongside MRT / LRT tracks _____	19
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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.

This standard is an adoption of UK National Annex (NA to BS EN 1991-1-7: 2006) to Eurocode 1: Actions on structures – Part 1-7 : General actions – Accidental actions and is implemented with the permission of British Standards Publishing Ltd.

In preparing this standard, reference was also made to PD 6688-1-7 : 2009 – Recommendations for the design of structures to BS EN 1991-1-7.

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 1991-1-7 for national choice, known as nationally determined parameters. The Singapore NA is to be read in conjunction with SS EN 1991-1-7 : 2009 – Eurocode 1: Actions on structures – Part 1-7: Accidental actions.

The local terminology for the following road categories are highlighted in brackets:

‘Motorways and country national and main roads’ (Expressways and semi-expressways)

‘Motorways, trunk and principal roads’ (Expressways and semi-expressways)

‘Country roads in rural area’ and ‘Roads in urban area’ in EN 1991-1-7 are not applicable to Singapore.

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 1991-1-7 : 2009 – Eurocode 1: Actions on structures – Part 1-7: General actions – Accidental actions

NOTE – This National Annex refers to design values for accidental actions. In the National Annexes to SS EN 1990 : 2008 Annex A1 and Annex A2, the safety factors for accidental actions are equal to 1. Therefore the nominal value and the design value for accidental actions are numerically the same. The nominal values and design values of an action are defined in SS EN 1990:2008 1.5.2.2 and 1.5.3.21 respectively.

NA.1 Scope

This National Annex gives:

- a) the Singapore decisions for the Nationally determined parameters described in the following subclauses of SS EN 1991-1-7:2009:

– 2 (2)	– 4.3.2 (3)	– 4.6.1 (3)
– 3.1 (2)	– 4.4 (1)	– 4.6.2 (1)
– 3.2 (1)	– 4.5 (1)	– 4.6.2 (2)
– 3.3 (2)	– 4.5.1.2 (1)	– 4.6.2 (3)
– 3.4 (1)	– 4.5.1.4 (1)	– 4.6.2 (4)
– 3.4 (2)	– 4.5.1.4 (2)	– 4.6.3 (1)
– 4.1 (1)	– 4.5.1.4 (3)	– 4.6.3 (3)
– 4.3.1 (1)	– 4.5.1.4 (4)	– 4.6.3 (4)
– 4.3.1 (2)	– 4.5.1.4 (5)	– 4.6.3 (5)
– 4.3.1 (3)	– 4.5.1.5 (1)	– 5.3 (1)P
– 4.3.2 (1)	– 4.5.2 (1)	– A.4 (1)
– 4.3.2 (2)	– 4.5.2 (4)	

- b) the Singapore decisions on the status of SS EN 1991-1-7:2009 informative annexes; and
- c) references to non-contradictory complementary information.