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NZS 1170.5:2004 Structural Design Actions - Part 5: Earthquake design actions - New Zealand

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Abbreviation

NZS 1170.5:2004

Amendment

Amendment 1 - incorporated, published 30.09.2016

Valid from

21/12/2004

Information provider

Standards New Zealand

Author

Standards New Zealand

Information type

New Zealand Standard

Format

PDF

Cited By

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Description

Provides procedures for the determination of earthquake actions on structures in New Zealand.

It gives the requirements for verification procedures, site hazard determination, the evaluation of structural characteristics, structural analysis for earthquake action effects, the determination and limits for deformations and the seismic design of parts of structures. It is to be applied in conjunction with AS/NZS 1170 parts 0, 1, 2 and 3.

Appendices cover aspects of ultimate limit state design and the requirements for material specific structural design standards that are able to be used in conjunction with NZS 1170.5.

Scope

This Standard, NZS 1170.5, sets out procedures and criteria for establishing the earthquake actions to be used in the limit state design of structures and parts of structures within New Zealand that are within the scope of AS/NZS 1170.0. The design of the following structures for earthquake actions is outside the scope of this Standard:

- (a) Bridges;
- (b) Tanks containing liquids;
- (c) Civil structures including dams and bunds;
- (d) Offshore structures that are partly or fully immersed; and
- (e) Soil retaining structures.

This Standard does not address the effects of slope instability, liquefaction, fault displacement, seiche and/or tsunami resulting from earthquake shaking. This Standard is to be used in conjunction with material specific structural design Standards that comply with the requirements of Appendix D.

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