

# New Zealand Seismic Regulations

## Update for IAEE (2016)

### MAIN REGULATION

1. NZS 1170.5:2004, Structural Design Actions, Part 5, Earthquake actions - New Zealand, 2004, plus Supplement, Issued by Standards New Zealand. (<http://shop.standards.co.nz/catalog/1170.5%3A2004%28NZS%29/view>)

*Note:* Modifications were required to this document in *Acceptable Solutions and Verification Methods For New Zealand Building Code, Clause B1 Structure*, 2014, See pages 17-22B.  
(<http://www.building.govt.nz/UserFiles/File/Publications/Building/Compliance-documents/B1-structure-1st-edition-amendment-12.pdf>)

### OTHER REGULATIONS

2. NZS 3101:2006 Parts 1 & 2 "Concrete Structures Standard", Standards New Zealand, with Amendment 1 (2006) and Amendment 2 (2008).
3. NZS 3404 Parts 1 & 2:1997. "Steel Structures Standard", Standards New Zealand, with Amendment 1 (2001) and Amendment 2 (2007).
4. NZS 3404.1:2009. "Steel structures Standard - Materials, fabrication, and construction", Standards New Zealand.
5. NZS 3603:1993. Timber-framed buildings Standard", Standards New Zealand.
6. NZS 3604:2011. Timber-framed buildings Standard", Standards New Zealand. (Not requiring specific design)
7. NZS 4230:2004. Design of reinforced concrete masonry structures, Standards New Zealand.
8. NZS 4229:2013. Concrete masonry buildings not requiring specific engineering design, Standards New Zealand.

*Note:* All latest Standards New Zealand documents are obtainable from their website for a fee.  
(<http://www.standards.co.nz/search-and-buy-standards/order-hard-copy-and-pdf-standards/>)

### MBIE PRACTICE ADVISORIES

The following are freely available on the MBIE website (<http://www.building.govt.nz/practice-advisories-index>)

- Practice Advisory 14: Long span steel roof trusses
- Practice Advisory 13: Egress stairs - Earthquake checks needed for some
- Practice Advisory 12: Unstiffened eccentric cleat connections in compression
- Practice Advisory 11: Grade 500E reinforcing steel – good practice
- Practice Advisory 10: Design guidance for barriers
- Practice Advisory 9: Significant changes in structural design
- Practice Advisory 8: Don't be undone – anchor your spiral
- Practice Advisory 6: Achieve best practice – every step of the way
- Practice Advisory 5: Allow for movement
- Practice Advisory 4: Do sweat the 'small' stuff
- Practice Advisory 3: Beware of limitations
- Practice Advisory 2: Pay attention to the basics
- Practice Advisory 1: Bend the bar but not the rules

### OTHER RELEVANT INFORMATION

1. SESOC Interim Design Guidance Design of Conventional Structural Systems Following The Canterbury Earthquakes, Version No. 9 – 26 March 2013 (<http://www.sesoc.org.nz/Design-Guides/SESOC-Interim-Design-Guidance-0.9.pdf>)
2. NZSEE Assessment and Improvement of the Structural Performance of Buildings in Earthquake, (<http://www.nzsee.org.nz/publications/assessment-and-improvement-of-the-structural-performance-of-buildings-in-earthquake/>)

### UPCOMING REGULATION UPDATES

During 2016 the following documents are expected to become available:

1. NZS 1170.5:2004, Structural Design Actions, Part 5, Earthquake actions - New Zealand, 2004, Issued by Standards New Zealand. 2016 Amendment.
2. NZS 3101:2016 Parts 1 & 2 "Concrete Structures Standard", Standards New Zealand.
3. AS/NZS2327:2016 "Composite steel-concrete construction in buildings"