

The Seismic Assessment of Existing Buildings

Technical Guidelines for Engineering Assessments

Draft for Sector Briefings June 2016

Part C4: Geotechnical Considerations



New Zealand Society for
Earthquake Engineering



MINISTRY OF BUSINESS,
INNOVATION & EMPLOYMENT
HIKINA WHAKATUTUKI



Document Status and Amendments

Version	Date	Purpose/Amendment Description
Draft Version 2016_SB	30 June 2016	Draft for Sector Briefings

This document is likely to be incorporated by reference to the Earthquake Prone Buildings (Chief Executive's) Methodology to be developed under the provisions of the Building (Earthquake-prone Buildings) Amendment Act. It will also be endorsed by MBIE for use as guidance under section 175 of the Building Act to the extent that it assists practitioners and territorial authorities in complying with the Building Act.

Document Access

This document may be downloaded from www.EQ-Assess.org.nz in the following file segments:

- 1 Contents
- 2 Part A – Assessment Objectives and Principles
- 3 Part B – Initial Seismic Assessment
- 4 Part C – Detailed Seismic Assessment

Updates will be notified on the above website.

The document will be formally released in early 2017, when the final form of the regulations and EPB Methodology associated with the Building (Earthquake-prone Buildings) Amendment Act 2016 is established.

Document Management and Key Contact

This document is managed jointly by the Ministry of Business, Innovation and Employment, the Earthquake Commission, the New Zealand Society for Earthquake Engineering, the Structural Engineering Society and the New Zealand Geotechnical Society.

Please contact the New Zealand Society for Earthquake Engineering via questions@EQ-Assess.org.nz if you require further information on these draft Guidelines, or if you wish to provide feedback.

Acknowledgements

These Guidelines were prepared during the period 2014 to 2016 with extensive technical input from the following members of the Project Technical Group:

Project Technical Group Chair	
Rob Jury	Beca
Task Group Leaders	
Jitendra Bothara	Miyamoto International
Adane Gebreyohanness	Beca
Nick Harwood	Eliot Sinclair
Weng Yuen Kam	Beca
Dave McGuigan	MBIE
Stuart Oliver	Holmes Consulting Group
Stefano Pampanin	University of Canterbury

Other Contributors	
Graeme Beattie	BRANZ
Alastair Cattanach	Dunning Thornton Consultants
Phil Clayton	Beca
Charles Clifton	University of Auckland
John Hare	Holmes Consulting Group
Jason Ingham	University of Auckland
Stuart Palmer	Tonkin & Taylor
Lou Robinson	Hadley & Robinson
Craig Stevenson	Aurecon

Project Management was provided by Deane McNulty, and editorial support provided by Ann Cunninghame and Sandy Cole.

Oversight to the development of these Guidelines was provided by a Project Steering Group comprising:

Dave Brunson (Chair)	Kestrel Group
Gavin Alexander	NZ Geotechnical Society
Stephen Cody	Wellington City Council
Jeff Farrell	Whakatane District Council
John Gardiner	MBIE

John Hare	SESOC
Quincy Ma	NZSEE
Richard Smith	EQC
Mike Stannard	MBIE
Frances Sullivan	Local Government NZ

Funding for the development of these Guidelines was provided by the Ministry of Business, Innovation and Employment and the Earthquake Commission.