

APPENDIX 1 MFE GUIDELINES

Table A1.1 Relationship between fault recurrence interval (RI) and Building Importance Category (BIC) (source: Kerr et al., 2003). Note: Faults with average recurrence intervals >125,000 years are not considered active.

Recurrence interval class	Fault recurrence interval	Building importance category (BIC) limitations* (allowable buildings)	
		Previously subdivided or developed sites	"Greenfield" sites
I	≤2000 years	BIC 1	BIC 1
II	>2000 years to ≤3500 years	BIC 1 and 2a	
III	>3500 years to ≤5000 years	BIC 1, 2a and 2b	BIC 1 and 2a
IV	>5000 years to ≤10,000 years	BIC 1, 2a, 2b and 3	BIC 1, 2a, and 2b
V	>10,000 years to ≤20,000 years		BIC 1, 2a, 2b and 3
VI	>20,000 years to ≤125,000 years	BI Category 1, 2a, 2b, 3 and 4	

Table A1.2 Building Importance Categories and representative examples. For more detail see Kerr et al. (2003).

Building Importance Category	Description	Examples
1	Temporary structures with low hazard to life and other property	<ul style="list-style-type: none"> • Structures with a floor area of <30m² • Farm buildings, fences • Towers in rural situations
2a	Timber-framed residential construction	<ul style="list-style-type: none"> • Timber framed single-story dwellings
2b	Normal structures and structures not in other categories	<ul style="list-style-type: none"> • Timber framed houses with area >300 m² • Houses outside the scope of NZS 3604 "Timber Framed Buildings" • Multi-occupancy residential, commercial, and industrial buildings accommodating <5000 people and <10,000 m² • Public assembly buildings, theatres and cinemas <1000 m² • Car parking buildings
3	Important structures that may contain people in crowds or contents of high value to the community or pose risks to people in crowds	<ul style="list-style-type: none"> • Emergency medical and other emergency facilities not designated as critical post disaster facilities • Airport terminals, principal railway stations, schools • Structures accommodating >5000 people • Public assembly buildings >1000 m² • Covered malls >10,000 m² • Museums and art galleries >1000 m² • Municipal buildings • Grandstands >10,000 people • Service stations • Chemical storage facilities >500m²
4	Critical structures with special post disaster functions	<ul style="list-style-type: none"> • Major infrastructure facilities • Air traffic control installations • Designated civilian emergency centres, medical emergency facilities, emergency vehicle garages, fire and police stations