		HAZUS PARAMETERS												VULNERABILITY PARAMETERS				STRUCTURAL IDENTIFICATION			APPROACH IDENTIFICATION		
AUTh building type	Description	Dy (cm)	Ay (g)	Du (cm)	Au (g)	Sdc	BE	Kshort	kmed	Klong	I45	θ 14	β 14	pc	Natural period	ductility factor	strength reduction factor	failure mode	vertical structure	horizontal str	Pager structure typ	Lit reference	analytical approach	procedure name
RC4.1LL	RC dual system, Low seismic code design (1959), Low-rise (2 storeys), No infill walls	0.27	0.25	3.53	0.42	4.82						4.38			0.21	13.1							Capacity Spectrum	
RC4.2LL	RC dual system, Low seismic code design (1959), Low-rise (2 storeys), Fully infilled	0.43	0.40	3.55	0.52	4.67						4.24			0.18	8.3								
RC4.3LL	RC dual system, Low seismic code design (1959), Low-rise (2 storeys), Soft storey (pilotis)	0.31	0.30	3.56	0.45	4.33						3.93			0.19	11.4								
RC4.1ML	RC dual system, Low seismic code design (1959), Medium-rise (4 storeys), No infill walls	0.97	0.17	5.24	0.25	5.77						5.24			0.47	5.4								
RC4.2ML	RC dual system, Low seismic code design (1959), Medium-rise (4 storeys), Fully infilled	0.86	0.23	5.39	0.28	6.68						6.07			0.38	6.2								
RC4.3ML	RC dual system, Low seismic code design (1959), Medium-rise (4 storeys), Soft storey (pilotis)	0.79	0.21	5.12	0.27	6.06						5.51			0.39	6.5								
RC4.1HL	RC dual system, Low seismic code design (1959), High-rise (9 storeys), No infill walls	3.52	0.19	16.97	0.20	18.66						16.97			0.79	4.8								
RC4.2HL	RC dual system, Low seismic code design (1959), High-rise (9 storeys), Fully infilled	2.88	0.24	12.32	0.26	19.02						17.29			0.62	4.3								
RC4.3HL	RC dual system, Low seismic code design (1959), High-rise (9 storeys), Soft storey (pilotis)	2.75	0.23	12.13	0.25	19.03						17.30			0.62	4.4		Failure at the base of R/C walls	R/C dual structure (R/C walls and frames)		C6			
RC4.1LH	RC dual system, High seismic code design (1995), Low-rise (2 storeys), No infill walls	0.53	0.70	17.42	0.80	34.55						28.79			0.18	32.7								
RC4.2LH	RC dual system, High seismic code design (1995), Low-rise (2 storeys), Fully infilled	0.44	0.75	17.46	0.86	34.70						28.91			0.16	39.8								
RC4.3LH	RC dual system, High seismic code design (1995), Low-rise (2 storeys), Soft storey (pilotis)	0.49	0.73	17.55	0.81	34.84						29.04			0.16	36.1								
RC4.1MH	RC dual system, High seismic code design (1995), Medium-rise (4 storeys), No infill walls	1.28	0.33	29.83	0.36	35.80						29.83			0.40	23.2								
RC4.2MH	RC dual system, High seismic code design (1995), Medium-rise (4 storeys), Fully infilled	1.15	0.41	13.82	0.41	36.24						30.20			0.33	12.0								
RC4.3MH	RC dual system, High seismic code design (1995), Medium-rise (4 storeys), Soft storey (pilotis)	1.10	0.38	15.40	0.39	36.40						30.33			0.34	14.0								
RC4.1HH	RC dual system, High seismic code design (1995), High-rise (9 storeys), No infill walls	6.13	0.37	41.02	0.54	49.22						41.02			0.79	6.7								
RC4.2HH	RC dual system, High seismic code design (1995), High-rise (9 storeys), Fully infilled	4.10	0.37	28.40	0.52	51.06						42.55			0.62	6.9								
RC4.3HH	RC dual system, High seismic code design (1995), High-rise (9 storeys), Soft storey (pilotis)	4.14	0.36	28.91	0.51	52.18						43.48			0.62	7.0								
RC1LL	RC frame, Low seismic code design (1959), Low-rise (2 storeys), No infill walls	2.69	0.15	10.93	0.17	14.21						10.93			0.84	4.1					C4	1. Kappos, A., Panagopoulos, G., Panagiotopoulos, C., & Penelis, G. (2006). A hybrid method for the vulnerability assessment of R/C and URM buildings. Bulletin of Earthquake Engineering, 4(4), 391-413. 2. Kappos, A.J., and Panagiotopoulos, C., "Inelastic static analysis of infilled R/C buildings", ICCES'03 (Corfu, Greece, July 2003), CD ROM Proceedings.		
RC3.1LL	RC frame, Low seismic code design (1959), Low-rise (2 storeys), Fully infilled	0.49	0.33	5.11	0.40	13.63						10.49			0.24	10.5					C3			
RC3.2LL	RC frame, Low seismic code design (1959), Low-rise (2 storeys), Soft storey (pilotis)	2.32	0.15	11.20	0.17	14.56						11.20			0.78	4.8								
RC1ML	RC frame, Low seismic code design (1959), Medium-rise (4 storeys), No infill walls	4.62	0.15	12.96	0.15	16.85						12.96			1.06	2.8				Rigid diaphragm (R/C slab)	C4			
RC3.1ML	RC frame, Low seismic code design (1959), Medium-rise (4 storeys), Fully infilled	1.03	0.23	6.80	0.30	16.52	5%					12.71	0.60-0.80		0.42	6.6					C3			
RC3.2ML	RC frame, Low seismic code design (1959), Medium-rise (4 storeys), Soft storey (pilotis)	2.55	0.16	9.85	0.17	13.93						10.71			0.80	3.9								
RC1HL	RC frame, Low seismic code design (1959), High-rise (9 storeys), No infill walls	6.86	0.12	14.23	0.13	18.49						14.23			1.03	2.1					C4			
RC3.1HL	RC frame, Low seismic code design (1959), High-rise (9 storeys), Fully infilled	3.36	0.17	12.00	0.21	18.45						14.19			0.67	3.6					C3			
RC3.2HL	RC frame, Low seismic code design (1959), High-rise (9 storeys), Soft storey (pilotis)	4.12	0.14	11.06	0.16	15.93						12.25			0.89	2.7								
RC1LM	RC frame, Medium seismic code design (1984), Low-rise (2 storeys), No infill walls	1.03	0.40	6.35	0.41	8.89						6.35			0.34	6.2					C4			
RC3.1LM	RC frame, Medium seismic code design (1984), Low-rise (2 storeys), Fully infilled	0.62	0.51	3.93	0.56	17.77						12.69			0.21	6.4					C3			
RC3.2LM	RC frame, Medium seismic code design (1984), Low-rise (2 storeys), Soft storey (pilotis)	0.82	0.37	6.70	0.38	9.38						6.70			0.30	8.2								
RC1MM	RC frame, Medium seismic code design (1984), Medium-rise (4 storeys), No infill walls	2.67	0.21	12.05	0.22	16.88						12.05			0.71	4.5		Failure of the 1st storey columns	R/C frame structure		C4			
RC3.1MM	RC frame, Medium seismic code design (1984), Medium-rise (4 storeys), Fully infilled	1.58	0.27	5.63	0.29	16.92						12.09			0.43	3.6					C3			
RC3.2MM	RC frame, Medium seismic code design (1984), Medium-rise (4 storeys), Soft storey (pilotis)	1.88	0.20	11.11	0.21	17.15						12.25			0.60	5.9								
RC1HM	RC frame, Medium seismic code design (1984), High-rise (9 storeys), No infill walls	6.61	0.24	25.41	0.24	35.58						25.41			1.05	3.8					C4			
RC3.1HM	RC frame, Medium seismic code design (1984), High-rise (9 storeys), Fully infilled	5.08	0.26	15.35	0.27	36.16						25.83			0.79	3.0					C3			
RC3.2HM	RC frame, Medium seismic code design (1984), High-rise (9 storeys), Soft storey (pilotis)	5.48	0.24	18.43	0.25	29.26						20.90			0.85	3.4								
RC1LH	RC frame, High seismic code design (1995), Low-rise (2 storeys), No infill walls	3.20	0.61	36.46	0.61	54.69						36.46			0.45	11.4								
RC3.1LH	RC frame, High seismic code design (1995), Low-rise (2 storeys), Fully infilled	1.00	0.75	5.40	0.87	55.07						36.71			0.19	5.4								
RC3.2LH	RC frame, High seismic code design (1995), Low-rise (2 storeys), Soft storey (pilotis)	2.44	0.57	37.91	0.63	59.39						39.59			0.41	15.6								
RC1MH	RC frame, High seismic code design (1995), Medium-rise (4 storeys), No infill walls	3.72	0.37	41.28	0.40	61.93						41.28			0.62	11.1								
RC3.1MH	RC frame, High seismic code design (1995), Medium-rise (4 storeys), Fully infilled	1.58	0.44	6.68	0.51	62.60						41.74			0.33	4.2					C1			
RC3.2MH	RC frame, High seismic code design (1995), Medium-rise (4 storeys), Soft storey (pilotis)	2.56	0.36	32.04	0.39	52.22						34.81			0.51	12.5								
RC1HH	RC frame, High seismic code design (1995), High-rise (9 storeys), No infill walls	7.09	0.22	37.25	0.23	55.87						37.25			1.16	5.3								
RC3.1HH	RC frame, High seismic code design (1995), High-rise (9 storeys), Fully infilled	3.88	0.26	15.84	0.31	57.04						38.03			0.70	4.1								
RC3.2HH	RC frame, High seismic code design (1995), High-rise (9 storeys), Soft storey (pilotis)	4.69	0.24	24.19	0.25	44.28						29.52			0.82	5.2								