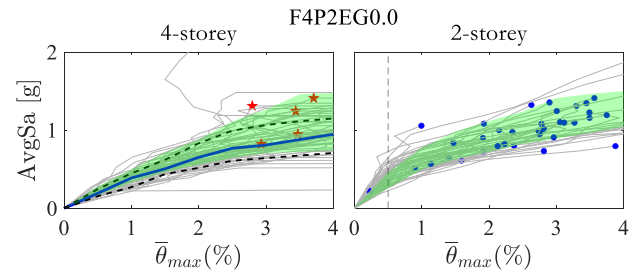
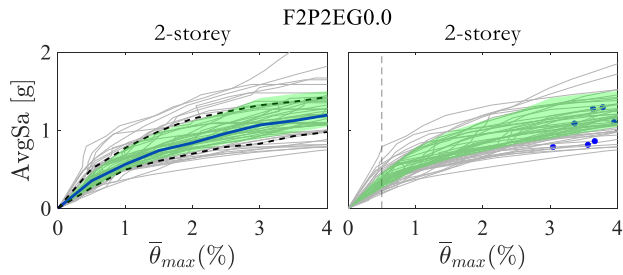
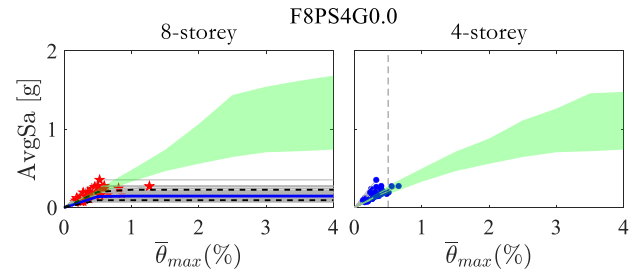
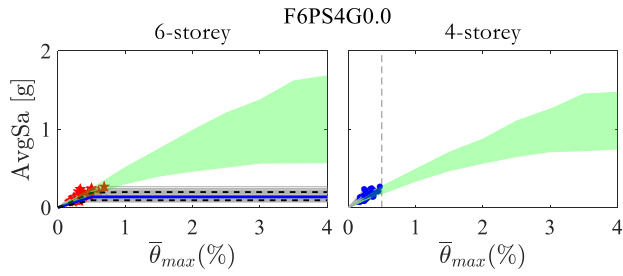
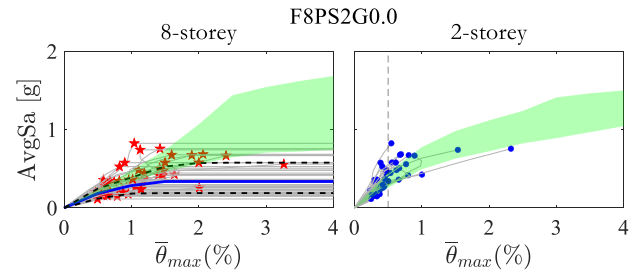
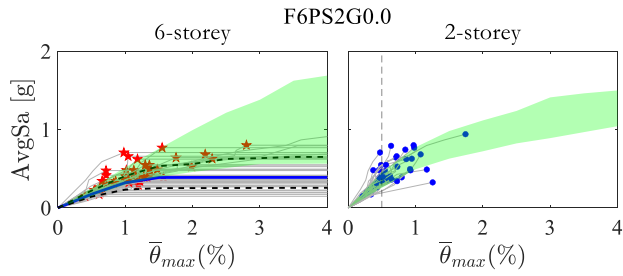
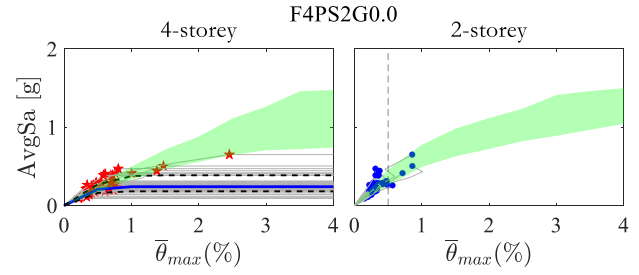
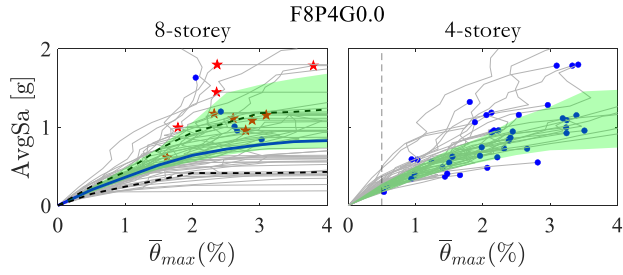
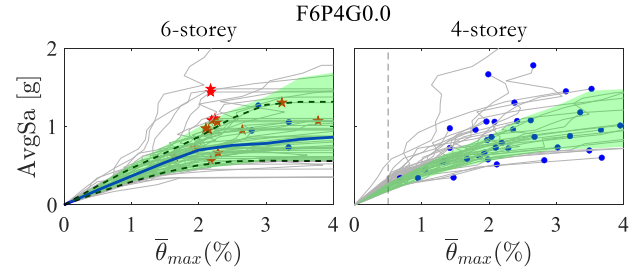
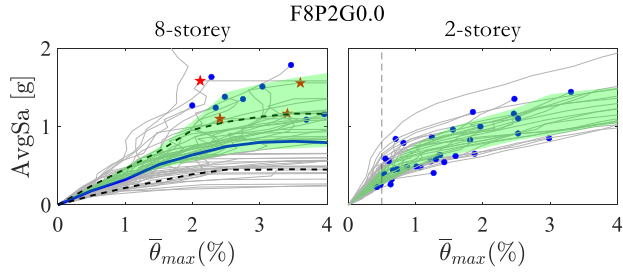
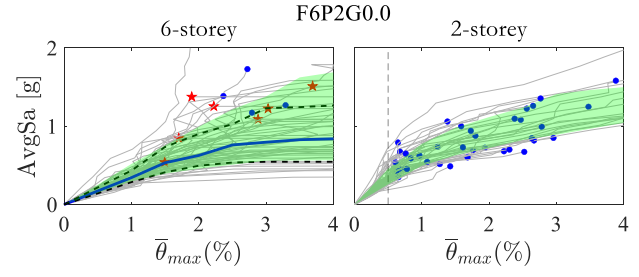
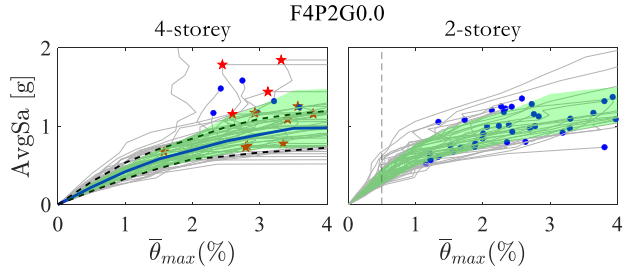
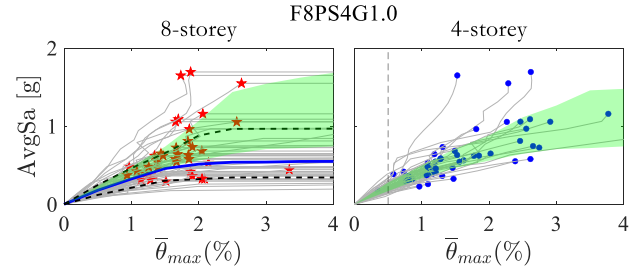
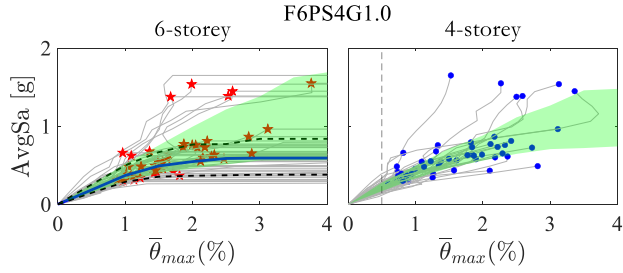
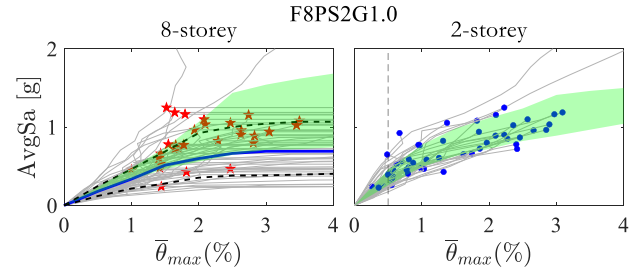
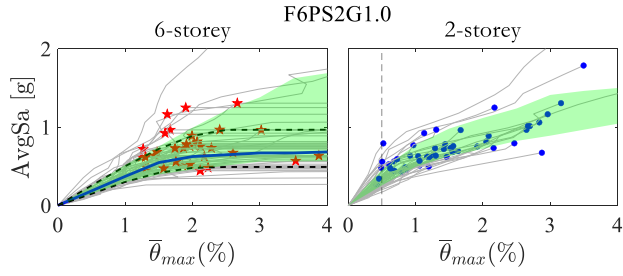
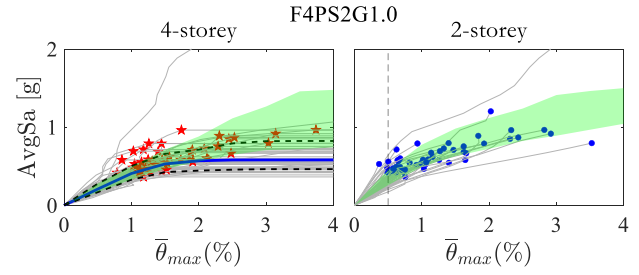
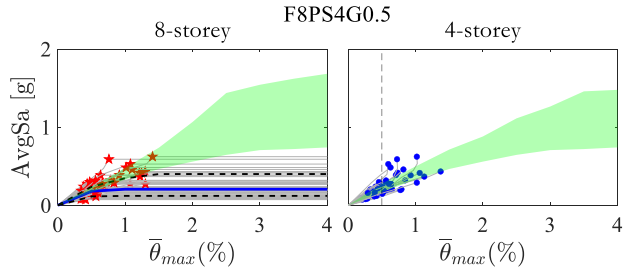
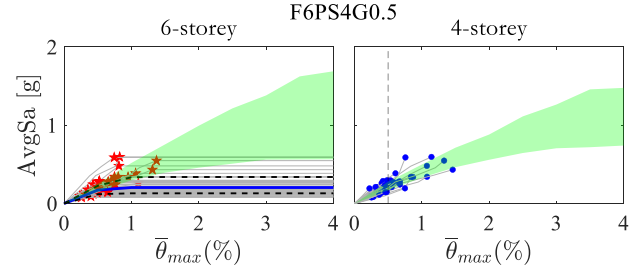
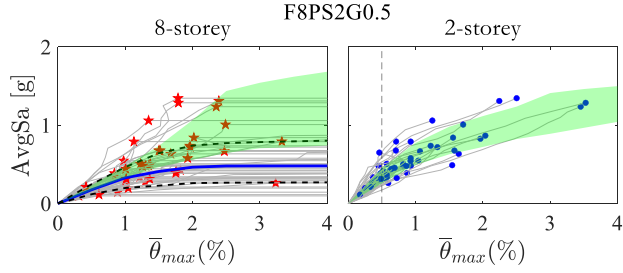
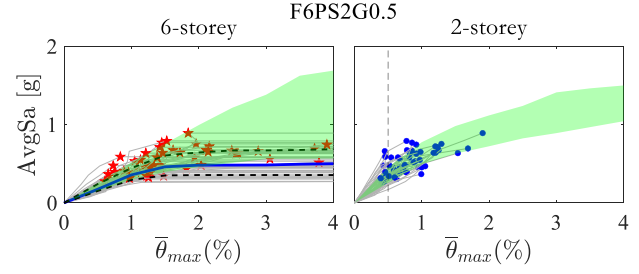
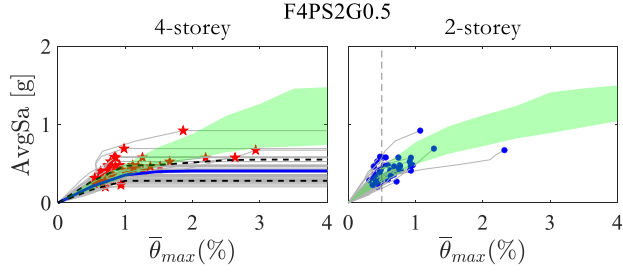
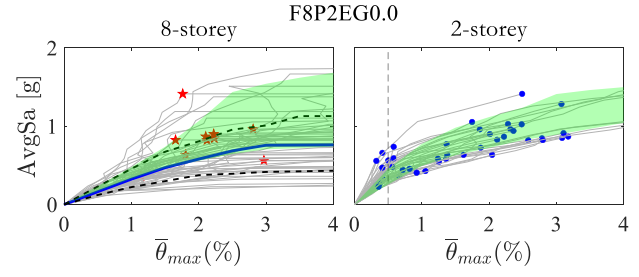
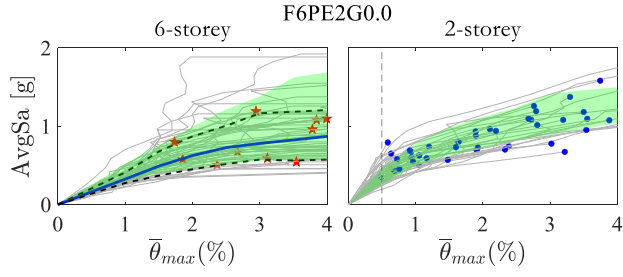


Table S1. Characteristics of the selected ground motions

Name	Year	M	PGA (g)	Aver. Sa (g)	Depth km	Name	Year	M	PGA (g)	Aver. Sa (g)	Depth km
Imperial Valley-06	1979	6.53	0.351	0.510	33.73	Chi-Chi, Taiwan	1999	7.62	0.223	0.451	41.2
Imperial Valley-02	1940	6.95	0.215	0.457	12.99	Imperial Valley-06	1979	6.53	0.220	0.424	43.15
Northridge-01	1994	6.69	0.322	0.440	25.44	Chi-Chi, Taiwan	1999	7.62	0.225	0.542	25.57
Chi-Chi, Taiwan	1999	7.62	0.128	0.356	63.29	Imperial Valley-06	1979	6.53	0.143	0.224	31.99
Chi-Chi, Taiwan-04	1999	6.2	0.100	0.241	50.36	Chi-Chi, Taiwan	1999	7.62	0.821	1.506	32.67
Coalinga-01	1983	6.36	0.114	0.271	55.67	Superstition Hills-02	1987	6.54	0.172	0.336	19.51
Northridge-01	1994	6.69	0.242	0.468	16.99	Landers	1992	7.28	0.146	0.288	75.2
Chi-Chi, Taiwan	1999	7.62	0.220	0.399	21.8	Imperial Valley-06	1979	6.53	0.116	0.183	31.99
Northridge-01	1994	6.69	0.127	0.229	24.13	Chi-Chi, Taiwan	1999	7.62	0.225	0.333	38.53
Landers	1992	7.28	0.115	0.259	75.2	Chi-Chi, Taiwan	1999	7.62	0.201	0.529	45.37
Taiwan SMART1(40)	1986	6.32	0.183	0.264	65.48	Kocaeli, Turkey	1999	7.51	0.244	0.299	47.03
Chi-Chi, Taiwan	1999	7.62	0.184	0.239	43.31	Northridge-01	1994	6.69	0.186	0.224	31.73
Loma Prieta	1989	6.93	0.278	0.460	51.2	Northridge-01	1994	6.69	0.210	0.289	33.25
Loma Prieta	1989	6.93	0.126	0.242	35.47	Northridge-01	1994	6.69	0.159	0.218	29.59
Chi-Chi, Taiwan	1999	7.62	0.603	1.592	26.67	Chi-Chi, Taiwan	1999	7.62	0.111	0.202	81.1
Loma Prieta	1989	6.93	0.587	0.800	18.46	Taiwan SMART1(45)	1986	7.3	0.136	0.270	71.35
Manjil, Iran	1990	7.37	0.132	0.257	77.84	Northridge-01	1994	6.69	0.184	0.327	32.72
Superstition Hills-02	1987	6.54	0.156	0.215	29.91	Northridge-01	1994	6.69	0.164	0.346	25.42
Loma Prieta	1989	6.93	0.192	0.216	55.16	Imperial Valley-06	1979	6.53	0.410	0.763	27.47
Coyote Lake	1979	5.74	0.107	0.253	23.24	Chi-Chi, Taiwan	1999	7.62	0.166	0.303	79.2
Chi-Chi, Taiwan-03	1999	6.2	0.146	0.254	32.39	Chi-Chi, Taiwan-04	1999	6.2	0.144	0.278	39.86
Chi-Chi, Taiwan	1999	7.62	0.182	0.383	55.23	Chi-Chi, Taiwan	1999	7.62	0.148	0.336	24.41
Imperial Valley-06	1979	6.53	0.485	0.647	27.13	Chi-Chi, Taiwan	1999	7.62	0.193	0.313	25.57
Chi-Chi, Taiwan	1999	7.62	0.114	0.197	101.62	Imperial Valley-06	1979	6.53	0.480	0.756	27.23
Chalfant Valley-02	1986	6.19	0.177	0.341	31.25	Northridge-01	1994	6.69	0.444	0.642	12.35





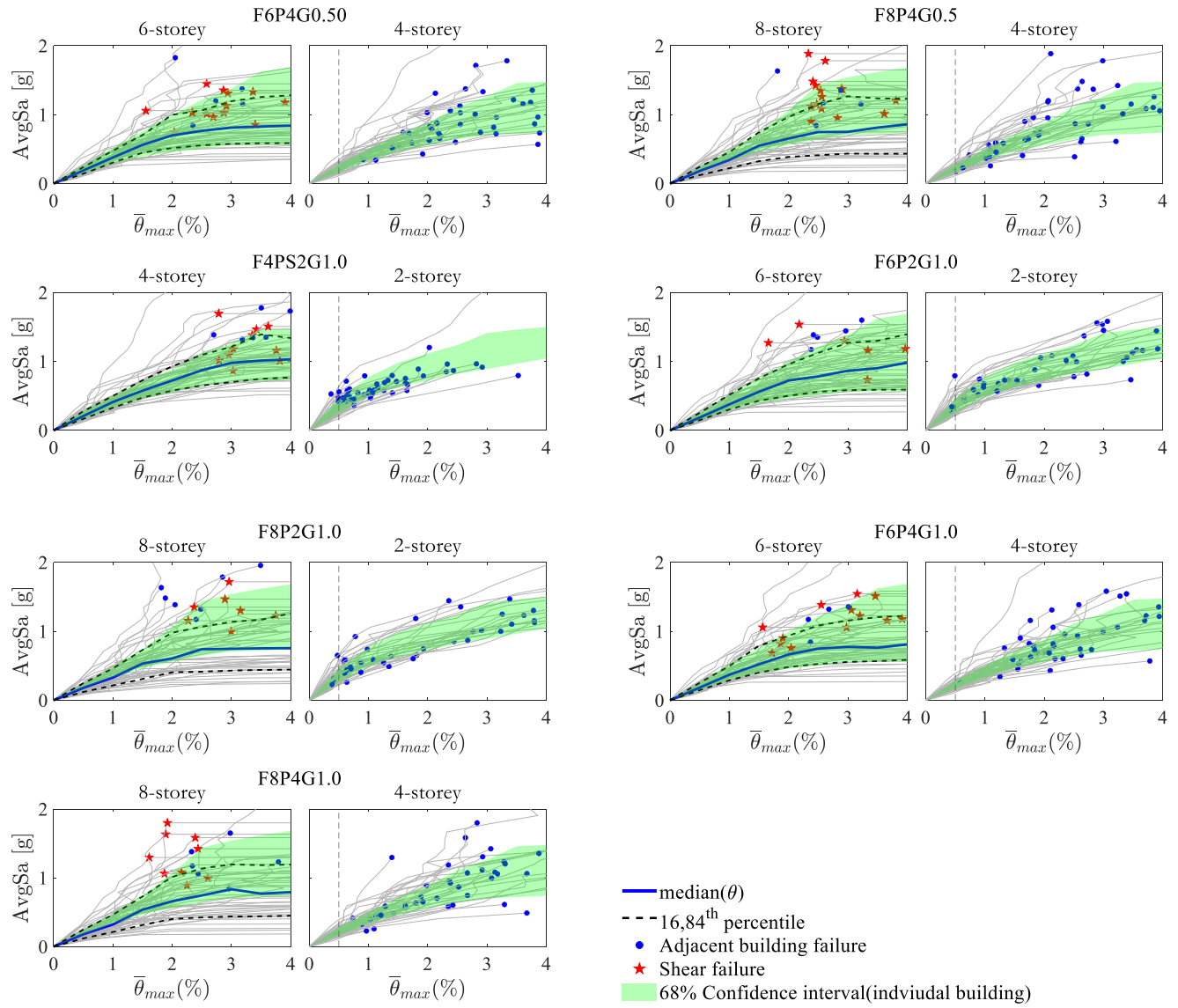


Figure S1. IDA curves obtained for all considered pounding configurations (continued).