

MAPPED ACCELERATION PARAMETERS SELECTED WORLD CITIES

Country, City	S_S	S_I	Country, City	S_S	S_I	Country, City	S_S	S_I
AFRICA	-----	-----	Kenya	-----	-----	South Africa	-----	-----
Algeria	-----	-----	Nairobi	0.62	0.28	Cape Town	1.24	0.56
Alger	1.24	0.56	Lesotho	-----	-----	Durban	0.62	0.28
Oran	1.24	0.56	Maseru	0.62	0.28	Johannesburg	0.62	0.28
Angola	-----	-----	Liberia	-----	-----	Natal	0.31	0.14
Luanda	0.06	0.06	Monrovia	0.31	0.14	Pretoria	0.62	0.28
Benin	-----	-----	Libya	-----	-----	Swaziland	-----	-----
Cotonou	0.06	0.06	Tripoli	0.62	0.28	Mbabane	0.62	0.28
Botswana	-----	-----	Wheelus AFB	0.62	0.28	Tanzania	-----	-----
Gaborone	0.06	0.06	Malagasy Republic	-----	-----	Dar es Salaam	0.62	0.28
Burundi	-----	-----	Tananarive	0.06	0.06	Zanzibar	0.62	0.28
Bujumbura	1.24	0.56	Malawi	-----	-----	Togo	-----	-----
Cameroon	-----	-----	Blantyre	1.24	0.56	Lome	0.31	0.14
Douala	0.06	0.06	Lilongwe	1.24	0.56	Tunisia	-----	-----
Yaounde	0.06	0.06	Zomba	1.24	0.56	Tunis	1.24	0.56
Cape Verde	-----	-----	Mali	-----	-----	Uganda	-----	-----
Praia	0.06	0.06	Bamako	0.06	0.06	Kampala	0.62	0.28
Central African Republic	-----	-----	Mauritania	-----	-----	Upper Volta	-----	-----
Bangui	0.06	0.06	Nouakchott	0.06	0.06	Ougadougou	0.06	0.06
Chad	-----	-----	Mauritius	-----	-----	Zaire	-----	-----
Ndjamena	0.06	0.06	Port Louis	0.06	0.06	Bukavu	1.24	0.56
Congo	-----	-----	Morocco	-----	-----	Kinshasa	0.06	0.06
Brazzaville	0.06	0.06	Casablanca	0.62	0.28	Lubumbashi	0.62	0.28
Djibouti	-----	-----	Port Lyautey	0.31	0.14	Zambia	-----	-----
Djibouti	1.24	0.56	Rabat	0.62	0.28	Lusaka	0.62	0.28
Egypt	-----	-----	Tangier	1.24	0.56	Zimbabwe	-----	-----
Alexandria	0.62	0.28	Mozambique	-----	-----	Harare	1.24	0.56
Cairo	0.62	0.28	Maputo	0.62	0.28	ASIA	-----	-----
Port Said	0.62	0.28	Niger	-----	-----	Afghanistan	-----	-----
Equatorial Guinea	-----	-----	Niamey	0.06	0.06	Kabul	1.65	0.75
Malabo	0.06	0.06	Nigeria	-----	-----	Bahrain	-----	-----
Ethiopia	-----	-----	Ibadan	0.06	0.06	Manama	0.06	0.06
Addis Ababa	1.24	0.56	Kaduna	0.06	0.06	Bangladesh	-----	-----
Asmara	1.24	0.56	Lagos	0.06	0.06	Dacca	1.24	0.56
Gabon	-----	-----	Republic of Rwanda	-----	-----	Brunei	-----	-----
Libreville	0.06	0.06	Kigali	1.24	0.56	Bandar Seri Begawan	0.31	0.14
Gambia	-----	-----	Senegal	-----	-----	Burma	-----	-----
Banjul	0.06	0.06	Dakar	0.06	0.06	Mandalay	1.24	0.56
Guinea	-----	-----	Seychelles	-----	-----	Rangoon	1.24	0.56
Bissau	0.31	0.14	Victoria	0.06	0.06	China	-----	-----
Conakry	0.06	0.06	Sierra Leone	-----	-----	Canton	0.62	0.28
Ivory Coast	-----	-----	Freetown	0.06	0.06	Chengdu	1.24	0.56
Abidjan	0.06	0.06	Somalia	-----	-----	Nanking	0.62	0.28
-----	-----	-----	Mogadishu	0.06	0.06	Peking	1.65	0.75

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ASIA	-----	-----	Jordan	-----	-----	Thailand	-----	-----
China	-----	-----	Amman	1.24	0.56	Bangkok	0.31	0.14
Shanghai	0.62	0.28	Korea	-----	-----	Chinmg Mai	0.62	0.28
Shengyang	1.65	0.75	Kwangju	0.31	0.14	Songkhia	0.06	0.06
Tibwa	1.65	0.75	Kimhae	0.31	0.14	Udom	0.31	0.14
Tsingtao	1.24	0.56	Pusan	0.31	0.14	Turkey	-----	-----
Wuhan	0.62	0.28	Seoul	0.06	0.06	Adana	0.62	0.28
Cyprus	-----	-----	Kuwait	-----	-----	Ankara	0.62	0.28
Nicosia	1.24	0.56	Kuwait	0.31	0.14	Istanbul	1.65	0.75
Hong Kong	-----	-----	Laos	-----	-----	Izmir	1.65	0.75
Hong Kong	0.62	0.28	Vientiane	0.31	0.14	Karamursel	1.24	0.56
India	-----	-----	Lebanon	-----	-----	United Arab Emirates	-----	-----
Bombay	1.24	0.56	Beirut	1.24	0.56	Abu Dhabi	0.06	0.06
Calcutta	0.62	0.28	Malaysia	-----	-----	Dubai	0.06	0.06
Madras	0.31	0.14	Kuala Lumpur	0.31	0.14	Viet Nam	-----	-----
New Delhi	1.24	0.56	Nepal	-----	-----	Ho Chi Min City	0.06	0.06
Indonesia	-----	-----	Kathmandu	1.65	0.75	Yemen Arab Republic	-----	-----
Bandung	1.65	0.75	Oman	-----	-----	Sanaa	1.24	0.56
Jakarta	1.65	0.75	Muscat	0.62	0.28	ATLANTIC OCEAN AREA	-----	-----
Medan	1.24	0.56	Pakistan	-----	-----	Azorea	-----	-----
Surabaya	1.65	0.75	Islamabad	1.68	0.65	All Locations	0.62	0.28
Iran	-----	-----	Karachi	1.65	0.75	Bermuda	-----	-----
Isfahan	1.24	0.56	Lahore	0.62	0.28	All Locations	0.31	0.14
Shiraz	1.24	0.56	Peshawar	1.65	0.75	CARIBBEAN SEA	-----	-----
Tabriz	1.65	0.75	Quatar	-----	-----	Bahama Islands	-----	-----
Tehran	1.65	0.75	Doha	0.06	0.06	All Locations	0.31	0.14
Iraq	-----	-----	Saudi Arabia	-----	-----	Cuba	-----	-----
Baghdad	1.24	0.56	Al Batin	0.31	0.14	All Locations	0.62	0.28
Basra	0.31	0.14	Dhahran	0.31	0.14	Dominican Republic	-----	-----
Israel	-----	-----	Jiddah	0.62	0.28	Santo Domingo	1.24	0.56
Haifa	1.24	0.56	Khamis Mushayf	0.31	0.14	French West Indies	-----	-----
Jerusalem	1.24	0.56	Riyadh	0.06	0.06	Martinique	1.24	0.56
Tel Aviv	1.24	0.56	Singapore	-----	-----	Grenada	-----	-----
Japan	-----	-----	All Locations	0.31	0.14	Saint Georges	1.24	0.56
Fukuoka	1.24	0.56	South Yemen	-----	-----	Haiti	-----	-----
Itazuke AFB	1.24	0.56	Aden City	1.24	0.56	Port au Prince	1.24	0.56
Misawa AFB	1.24	0.56	Sri Lanka	-----	-----	Jamaica	-----	-----
Naha, Okinawa	1.65	0.75	Colombo	0.06	0.06	Kingston	1.24	0.56
Osaka/Kobe	1.65	0.75	Syria	-----	-----	Leeward Islands	-----	-----
Sapporo	1.24	0.56	Aleppo	1.24	0.56	All Locations	1.24	0.56
Tokyo	1.65	0.75	Damascus	1.24	0.56	Puerto Rico	-----	-----
Wakkanai	1.24	0.56	Taiwan	-----	-----	All Locations	0.83	0.38
Yokohama	1.65	0.75	All Locations	1.65	0.75	Trinidad & Tobago	-----	-----
Yokota	1.65	0.75	-----	-----	-----	All Locations	1.24	0.56

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Country, City	S_S	S_I	Country, City	S_S	S_I	Country, City	S_S	S_I
Belize	-----	-----	Denmark	-----	-----	Trieste	1.24	0.56
Beimopan	0.62	0.28	Copenhagen	0.31	0.14	Turin	0.62	0.28
Canal Zone	-----	-----	Finland	-----	-----	Luxembourg	-----	-----
All Locations	0.62	0.28	Helsinki	0.31	0.14	Luxembourg	0.31	0.14
Costa Rica	-----	-----	France	-----	-----	Malta	-----	-----
San Jose	1.24	0.56	Bordeaux	0.62	0.28	Valletta	0.62	0.28
El Salvador	-----	-----	Lyon	0.31	0.14	Netherlands	-----	-----
San Slavador	1.65	0.75	Marseille	1.24	0.56	All Locations	0.06	0.06
Guatemala	-----	-----	Nice	1.24	0.56	Norway	-----	-----
Guatemala	1.65	0.75	Strasbourg	0.62	0.28	Oslo	0.62	0.28
Honduras	-----	-----	Germany	-----	-----	Poland	-----	-----
Tegucigalpa	1.24	0.56	Berlin	0.06	0.06	Krakow	0.62	0.28
Nicaragua	-----	-----	Bonn	0.62	0.28	Poznan	0.31	0.14
Managua	1.65	0.75	Bremen	0.06	0.06	Warszawa	0.31	0.14
Panama	-----	-----	Düsseldorf	0.31	0.14	Portugal	-----	-----
Colon	1.24	0.56	Frankfurt	0.62	0.28	Lisbon	1.65	0.75
Galeta	0.83	0.38	Hamburg	0.06	0.06	Oporto	1.24	0.56
Panama	1.24	0.56	Munich	0.31	0.14	Romania	-----	-----
Mexico	-----	-----	Stuttgart	0.62	0.28	Bucharest	1.24	0.56
Ciudad Juarez	0.62	0.28	Vaihigen	0.62	0.28	Spain	-----	-----
Guadalajara	1.24	0.56	Greece	-----	-----	Barcelona	0.62	0.28
Hermosillo	1.24	0.56	Athens	1.24	0.56	Bilbao	0.62	0.28
Matamoros	0.06	0.06	Kavalla	1.65	0.75	Madrid	0.06	0.06
Mazatlan	0.60	0.28	Makri	1.65	0.56	Rota	0.62	0.28
Merida	0.06	0.06	Rhodes	1.24	0.75	Seville	0.62	0.28
Mexico City	1.24	0.56	Sauda Bay	1.65	0.56	Sweden	-----	-----
Monterrey	0.06	0.06	Thessaloniki	1.65	0.56	Goteborg	0.62	0.28
Nuevo Laredo	0.06	0.06	Hungary	-----	-----	Stockholm	0.31	0.14
Tijuana	1.24	0.56	Budapest	0.62	0.28	Switzerland	-----	-----
EUROPE	-----	-----	Iceland	-----	-----	Bern	0.62	0.28
Albania	-----	-----	Keflavick	1.24	0.56	Geneva	0.31	0.14
Tirana	1.24	0.56	Reykjavik	1.65	0.75	Zurich	0.62	0.28
Austria	-----	-----	Ireland	-----	-----	United Kingdom	-----	-----
Salzburg	0.62	0.28	Dublin	0.06	0.06	Belfast	0.06	0.06
Vienna	0.62	0.28	Italy	-----	-----	Edinburgh	0.31	0.14
Belgium	-----	-----	Aviano AFB	1.24	0.56	Edzell	0.31	0.14
Antwerp	0.31	0.14	Brindisi	0.06	0.06	Glasgow/Renfrew	0.31	0.14
Brussels	0.62	0.28	Florence	1.24	0.56	Hamilton	0.31	0.14
Bulgaria	-----	-----	Genoa	1.24	0.56	Liverpool	0.31	0.14
Sofia	1.24	0.56	Milan	0.62	0.28	London	0.62	0.28
Czechoslovakia	-----	-----	Naples	1.24	0.56	Londonderry	0.31	0.14
Bratislava	0.62	0.28	Palermo	1.24	0.56	Thurso	0.31	0.14
Prague	0.31	0.14	Rome	0.62	0.28	U. S. S. R.	-----	-----
-----	-----	-----	Sicily	1.24	0.56	Kiev	0.06	0.06

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U. S. S. R.	-----	-----	Valparaiso	1.65	0.75	Baguio	1.24	0.56
Leningrad	0.06	0.06	Colombia	-----	-----	Samoa	-----	-----
Moscow	0.06	0.06	Bogotá	1.24	0.56	All Locations	1.24	0.56
Yugoslavia	-----	-----	Ecuador	-----	-----	Wake Island	-----	-----
Belgrade	0.62	0.28	Quito	1.65	0.75	All Locations	0.06	0.06
Zagreb	1.24	0.56	Guayaquil	1.24	0.56	-----	-----	-----
NORTH AMERICA	-----	-----	Paraguay	-----	-----	-----	-----	-----
Greenland	-----	-----	Asuncion	0.06	0.06	-----	-----	-----
All Locations	0.31	0.14	Peru	-----	-----	-----	-----	-----
Canada	-----	-----	Lima	1.65	0.75	-----	-----	-----
Argentina NAS	0.62	0.28	Piura	1.65	0.75	-----	-----	-----
Calgary, Alb	0.31	0.14	Uruguay	-----	-----	-----	-----	-----
Churchill, Man	0.06	0.06	Montevideo	0.06	0.06	-----	-----	-----
Cold Lake, Alb	0.31	0.14	Venezuela	-----	-----	-----	-----	-----
Edmonton, Alb	0.31	0.14	Maracaibo	0.62	0.28	-----	-----	-----
East Harmon AFB	0.62	0.28	Caracas	1.65	0.75	-----	-----	-----
Fort Williams, Ont.	0.06	0.06	PACIFIC OCEAN AREA	-----	-----	-----	-----	-----
Frobisher N. W. Ter.	0.06	0.06	Australia	-----	-----	-----	-----	-----
Goose Airport	0.31	0.14	Brisbane	0.31	0.14	-----	-----	-----
Halifax	0.31	0.14	Canberra	0.31	0.14	-----	-----	-----
Montreal, Quebec	1.24	0.56	Melbourne	0.31	0.14	-----	-----	-----
Ottawa, Ont.	0.31	0.28	Perth	0.31	0.14	-----	-----	-----
St. John's, Nfld.	1.24	0.56	Sydney	0.31	0.14	-----	-----	-----
Toronto, Ont.	0.31	0.14	Caroline Islands	-----	-----	-----	-----	-----
Vancouver	1.24	0.56	Koror, Paulau, Is.	0.62	0.28	-----	-----	-----
Winnipeg, Man.	0.31	0.14	Ponape	0.06	0.06	-----	-----	-----
SOUTH AMERICA	-----	-----	Fiji	-----	-----	-----	-----	-----
Argentina	-----	-----	Suva	1.24	0.56	-----	-----	-----
Buenos Aires	0.25	0.10	Johnson Island	-----	-----	-----	-----	-----
Brazil	-----	-----	All Locations	0.31	0.14	-----	-----	-----
Belem	0.06	0.06	Mariana Islands	-----	-----	-----	-----	-----
Belo Horizonte	0.06	0.06	Guam	1.24	0.56	-----	-----	-----
Brasilia	0.06	0.06	Saipan	1.24	0.56	-----	-----	-----
Manaus	0.06	0.06	Tinian	1.24	0.56	-----	-----	-----
Porto Allegre	0.06	0.06	Marshall Islands	-----	-----	-----	-----	-----
Recife	0.06	0.06	All Locations	0.31	0.14	-----	-----	-----
Rio de Janeiro	0.06	0.06	New Zealand	-----	-----	-----	-----	-----
Salvador	0.06	0.06	Auckland	1.24	0.56	-----	-----	-----
Sao Paulo	0.31	0.14	Wellington	1.65	0.75	-----	-----	-----
Bolivia	-----	-----	Papua New Guinea	-----	-----	-----	-----	-----
La Paz	1.24	0.56	Port Moresby	1.65	0.75	-----	-----	-----
Santa Cruz	0.31	0.14	Philippine Islands	-----	-----	-----	-----	-----
Chile	-----	-----	Cebu	1.65	0.75	-----	-----	-----
Santiago	1.65	0.75	Manila	1.65	0.75	-----	-----	-----

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Special Note: The values for S_s and S_1 above are the United States Department of Defense Document **UFC 3-310-03A**. These values may not represent the maximum values found in that particular city. They are intended only for estimating the Seismic Design Category and horizontal seismic force requirements for a project. For final assignment of Seismic Design Category and calculation of horizontal seismic design forces, obtain accurate mapped acceleration parameters from the geological survey for the project location.

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