

$G = \gamma v_s^2/g$ = the average shear modulus for the soils beneath the foundation at large strain levels (psf or Pa)	k_a = coefficient defined in Sections 12.11.2 and 12.14.7.5
$G_0 = \gamma v_{s0}^2/g$ = the average shear modulus for the soils beneath the foundation at small strain levels (psf or Pa)	L = overall length of the building (ft or m) at the base in the direction being analyzed
g = acceleration due to gravity	L_0 = overall length of the side of the foundation in the direction being analyzed, Section 19.2.1.2 (ft or m)
H = thickness of soil	M_0, M_{01} = the overturning moment at the foundation–soil interface as determined in Sections 19.2.3 and 19.3.2 (ft-lb or N-m)
h = height of a shear wall measured as the maximum clear height from top of foundation to bottom of diaphragm framing above, or the maximum clear height from top of diaphragm to bottom of diaphragm framing above	M_t = torsional moment resulting from eccentricity between the locations of center of mass and the center of rigidity (Section 12.8.4.1)
h = average roof height of structure with respect to the base; see Chapter 13	M_{ta} = accidental torsional moment as determined in Section 12.8.4.2
\bar{h} = effective height of the building as determined in Section 19.2.1.1 or 19.3.1 (ft or m)	m = a subscript denoting the mode of vibration under consideration; that is, $m = 1$ for the fundamental mode
h_c = core dimension of a component measured to the outside of the special lateral reinforcement (in. or mm)	N = standard penetration resistance, ASTM D-1586
h_i, h_x = the height above the base to Level i or x , respectively	N = number of stories above the base (Section 12.8.2.1)
h_n = structural height as defined in Section 11.2	\bar{N} = average field standard penetration resistance for the top 100 ft (30 m); see Sections 20.3.3 and 20.4.2
h_p = the height of the rectangular glass panel	\bar{N}_{ch} = average standard penetration resistance for cohesionless soil layers for the top 100 ft (30 m); see Sections 20.3.3 and 20.4.2
h_{sx} = the story height below Level $x = (h_x - h_{x-1})$	N_i = standard penetration resistance of any soil or rock layer i (between 0 and 100 ft [30 m]); see Section 20.4.2
I_e = the importance factor as prescribed in Section 11.5.1	n = designation for the level that is uppermost in the main portion of the building
I_0 = the static moment of inertia of the load-carrying foundation; see Section 19.2.1.1 (in. ⁴ or mm ⁴)	PGA = mapped MCE_G peak ground acceleration shown in Figs. 22-6 through 22-10
I_p = the component importance factor as prescribed in Section 13.3.1	PGA_M = MCE_G peak ground acceleration adjusted for Site Class effects; see Section 11.8.3
i = the building level referred to by the subscript i ; $i = 1$ designates the first level above the base	P_x = total unfactored vertical design load at and above level x , for use in Section 12.8.7
K_p = the stiffness of the component or attachment, Section 13.6.2	PI = plasticity index, ASTM D4318
K_y = the lateral stiffness of the foundation as defined in Section 19.2.1.1 (lb/in. or N/m)	Q_E = effect of horizontal seismic (earthquake-induced) forces
K_θ = the rocking stiffness of the foundation as defined in Section 19.2.1.1 (ft-lb/degree or N-m/rad)	R = response modification coefficient as given in Tables 12.2-1, 12.14-1, 15.4-1, or 15.4-2
KL/r = the lateral slenderness ratio of a compression member measured in terms of its effective length, KL , and the least radius of gyration of the member cross section, r	R_p = component response modification factor as defined in Section 13.3.1
k = distribution exponent given in Section 12.8.3	r = a characteristic length of the foundation as defined in Section 19.2.1.2
\bar{k} = stiffness of the building as determined in Section 19.2.1.1 (lb/ft or N/m)	r_a = characteristic foundation length as defined by Eq. 19.2-7 (ft or m)