UBC Structural Systems (R) Table 16-N

Structural System	Description	R	Max Height in Zone 3 or 4
Bearing Walls	Shear Panels	5.5	65
	Tension (X) Bracing	2.8	65
Frame System	Steel Eccentric	7.0	240
	Concrete Shear	5.5	240
	Heavy Timber	5.6	65
Moment Frame	Steel	8.5	No Limit
	Concrete	8.5	No Limit
Dual Systems	Masonry/SMRF	5.5	160
	Steel EBF/SMRF	8.5	No Limit

Seismic Coefficient C_a Table 16-Q

Soil Profile	Z = 0.075	Z = 0.15	Z = 0.2	Z = 0.3	Z = 0.4
S_A	0.06	0.12	0.16	0.24	$0.32N_a$
S_B	0.08	0.15	0.20	0.30	$0.40N_a$
S_C	0.09	0.18	0.24	0.33	$0.40N_a$
S_D	0.12	0.22	0.28	0.36	$0.44N_a$
S_E	0.19	0.30	0.34	0.36	$0.36N_a$

Seismic Coefficient C_v Table 16-R

Soil Profile	Z = 0.075	Z = 0.15	Z = 0.2	Z = 0.3	Z = 0.4
S_A	0.06	0.12	0.16	0.24	$0.32N_v$
S_B	0.08	0.15	0.20	0.30	$0.40N_v$
S_C	0.13	0.25	0.32	0.45	$0.56N_v$
S_D	0.18	0.32	0.40	0.54	$0.64N_v$
S_E	0.26	0.50	0.64	0.84	$0.96N_v$

$$V = F_t + \sum_{i=1}^{n} F_i \qquad (30\text{-}13)$$

The concentrated force F_t at the top, which is in addition to F_n, shall be determined from the formula:

$$F_t = 0.07\ T\ V \qquad (30\text{-}14)$$

The value of T used for the purpose of calculating F_t shall be the period that corresponds with the design base shear as computed using Formula (30-4). F_t need not exceed $0.25V$ and may be considered as zero where T is 0.7 second or less. The remaining por-

$$F_x = \frac{(V - F_t)\, w_x h_x}{\sum_{i=1}^{n} w_i h_i} \qquad (30\text{-}15)$$