

Site Information Sources

- Vs30 Method:

Nearest grid value of Thompson et al. (2014) Vs30 map

- According to:

Thompson, E. M., D. J. Wald, and C. B. Worden (2014). A VS30 map for California with geologic and topographic constraints, Bull. Seismol. Soc. Am. 104, 2313-2321

- Site Class was determined by:

Vs30 value according to the site class definition table below.

Site Class Definitions		
Site Class	Soil Profile Description	Average Soil Shear Wave Velocity in Top 100 ft (30 m), V_{s30}
A	Hard rock	$V_{s30} > 5,000 \text{ ft/s}$ ($V_{s30} > 1,500 \text{ m/s}$)
B	Rock	$2,500 < V_{s30} \leq 5,000 \text{ ft/s}$ ($760 < V_{s30} \leq 1,500 \text{ m/s}$)
C	Very dense soil and soft rock	$1,200 < V_{s30} \leq 2,500 \text{ ft/s}$ ($360 < V_{s30} \leq 760 \text{ m/s}$)
D	Stiff soil	$600 \leq V_{s30} \leq 1,200 \text{ ft/s}$ ($180 \leq V_{s30} \leq 360 \text{ m/s}$)
E	Soft clay soil	$V_{s30} < 600 \text{ ft/s}$ ($V_{s30} < 180 \text{ m/s}$)
F	Soils requiring site response analysis	--
Notes: 1) In cases where the V_{s30} value is near the lower boundary of a Site Class (within 5%) , the Site Class is noted as A/B, B/C, C/D or D/E . 2) Excerpted from Table 20.3-1 in Chapter 20 of ASCE 7-10.		