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Soil Case No.	Seismic Control Motion Applied	Soil Profile (Half-space or Layered)	⁽¹⁾ Shear-wave Velocity of Soil (ft/sec)	
1u	EUR Soft	Half-space	700	
2u (A and B)	EUR Soft and Medium	Half-space	1640	-
3u	EUR Medium	Half-space	2625	$arphi$ \leq
4u (A and B)	EUR Medium and Hard	Half-space	3937	
5u	EUR Hard	Half-space	5249	4
5a	EUR Hard	Half-space	13123	-16
1n2u	EUR Soft	Linear gradient within a 100 ft layer over a half-space	820 to 1640	H
2sn4u	EUR Medium	49 ft uniform layer over a half-space	1640/3937	1
2n3u	EUR Medium	Linear gradient within a 200 ft layer over a half-space	1640 to 2625 -	
3r3u	EUR Medium	20 ft uniform layer over 33 ft stiffer	2625/5249/2625	















