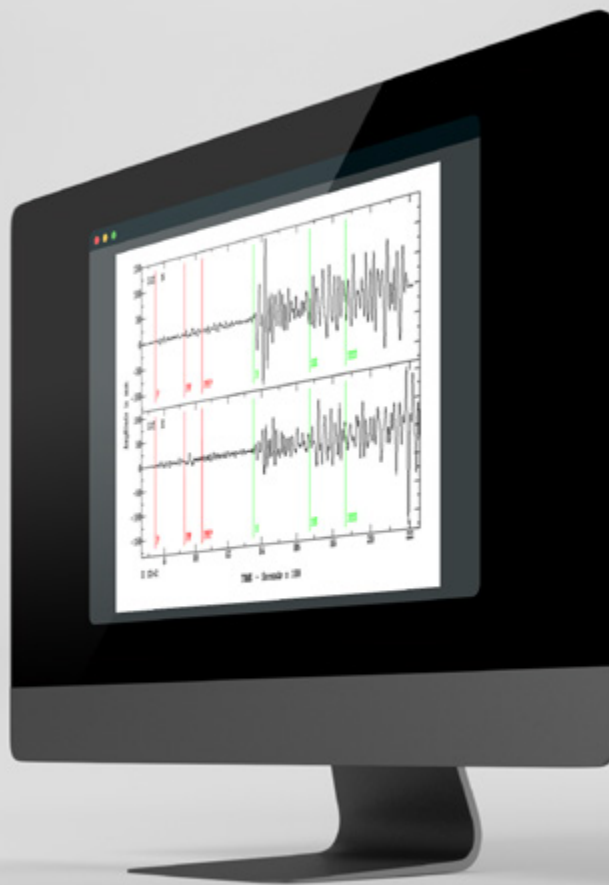


Seismic Questionnaire

Updated
16/07/2025

Questionnaire for buried HDPE Pipe



PKS Civil Seismic Questionnaire

1	Importance Level	
2	Design life	
3	Annual Probability of Exceedance	
4	ULS	
5	SLS	
6	Fundamental Translational Period	
7	Hazard Factor	
8	Ductility Factor	
9	Site Subsoil Class	
10	Basic Seismic Hazard Acceleration Coefficient, $Ch(T)$	
11	Return Period Factor for ULSu	
12	Near-Fault Factor	
13	Elastic Site Hazard Spectrum Horizontal Loading	
14	Lateral soil pressure coefficient ΔPE	
15	Seismic shear strain at the pipe depth	
16	Soil properties (Mohr-Coulomb model)	
17	Material	
18	Unit Weight,	
19	Peak Friction Angle	
20	Effective Cohesion	
21	Effective Modulus	
22	Poisson's ration	
23	Shear modulus	
24	Peak ground accelaration (upper bound)	
25	Peak ground velocity (lower bound)	
26	Apparent shear wave propagation speed (lower bound)	
27	Soil deposit thickness over rigid bedrock (for estimating wavelength)	