

Lateral Earth Pressure Coef. Report

PEYSANJ (Full) geotechnical engineering software

Designed & Programmed by: Alireza Afkhami-Aghda (MAsc, MCP, PEng)
www.NovotechSoftware.com

Project Title: 6 Storey Commercial Building
Client: ABC Ltd.
Address:
Job Code: 111-25

شرکت مهندسين مشاور ايران

بیشرو در فناوری تست شمع



Backslope angle (alpha) = 5 deg. Wall batter abgle (beta) = 90 deg.
 Soil-wall friction angle (delta) = 22.8 deg. Backfill friction angle Fi = 34 deg.

Rankin Lateral Earth Pressure (static)

Ka=0.286

Kp=3.476

Coulomb Lateral Earth Pressure (static)

Ka=0.269

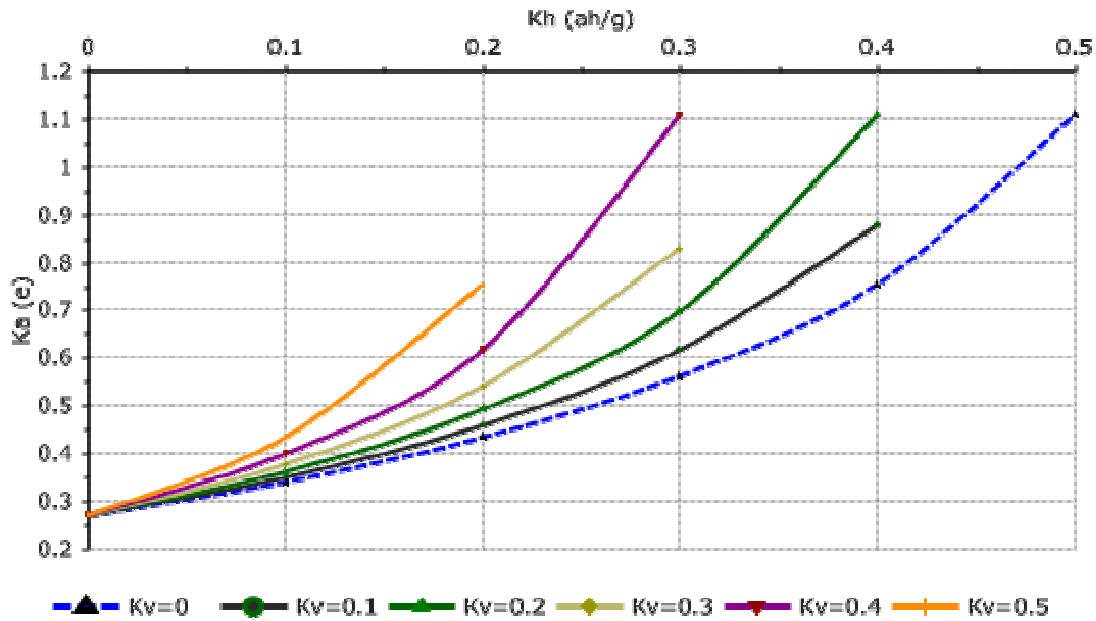
Kp=12.634

Kv (g)	Kh (g)	Kae	Kpe
0	0	0.269	12.634
0	0.1	0.34	11.654
0	0.2	0.433	10.661
0	0.3	0.562	9.65
0	0.4	0.754	8.612
0	0.5	1.108	7.537
0	0.6	*	*
0	0.7	*	*
0	0.8	*	*
0	0.9	*	*
0.1	0	0.269	12.634
0.1	0.1	0.349	11.545
0.1	0.2	0.458	10.438
0.1	0.3	0.616	9.307
0.1	0.4	0.878	8.14
0.1	0.5	*	*
0.1	0.6	*	*
0.1	0.7	*	*
0.1	0.8	*	*
0.1	0.9	*	*
0.2	0	0.269	12.634
0.2	0.1	0.361	11.407
0.2	0.2	0.492	10.158
0.2	0.3	0.697	8.875
0.2	0.4	1.108	7.537
0.2	0.5	*	*
0.2	0.6	*	*
0.2	0.7	*	*
0.2	0.8	*	*
0.2	0.9	*	*
0.3	0	0.269	12.634
0.3	0.1	0.377	11.231
0.3	0.2	0.541	9.795
0.3	0.3	0.829	8.31
0.3	0.4	*	*
0.3	0.5	*	*
0.3	0.6	*	*
0.3	0.7	*	*
0.3	0.8	*	*
0.3	0.9	*	*
0.4	0	0.269	12.634
0.4	0.1	0.399	10.994
0.4	0.2	0.616	9.307
0.4	0.3	1.108	7.537
0.4	0.4	*	*
0.4	0.5	*	*
0.4	0.6	*	*
0.4	0.7	*	*
0.4	0.8	*	*
0.4	0.9	*	*

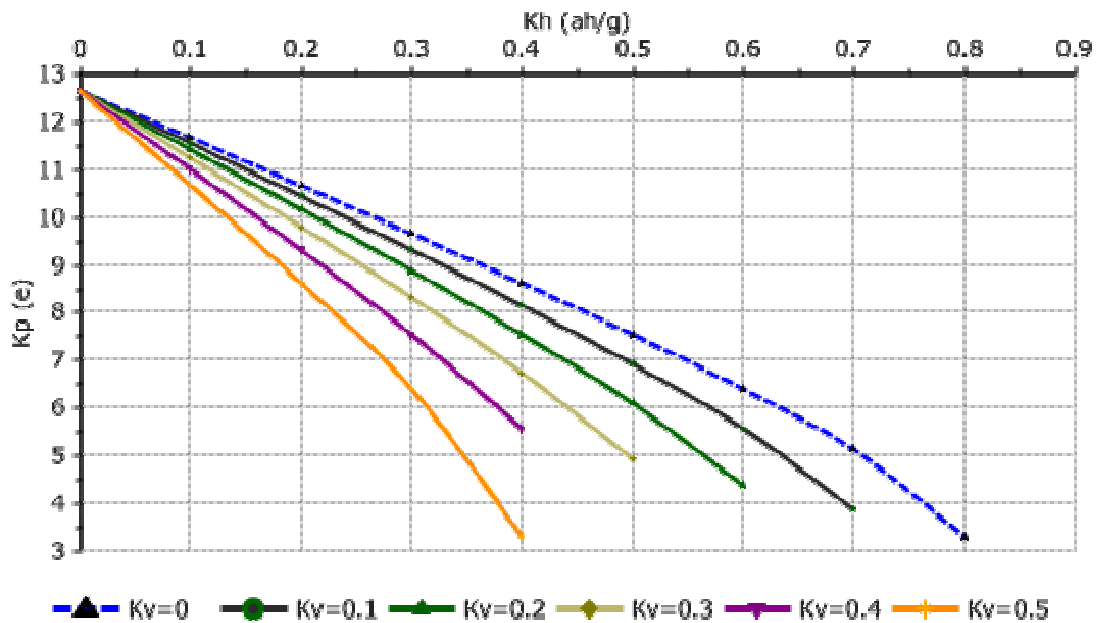


0.5	0	0.269	12.634
0.5	0.1	0.433	10.661
0.5	0.2	0.754	8.612
0.5	0.3	*	*
0.5	0.4	*	*
0.5	0.5	*	*
0.5	0.6	*	*
0.5	0.7	*	*
0.5	0.8	*	*
0.5	0.9	*	*

Mononobe-Okabe Kae



Mononobe-Okabe Kpa



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