

Verification No. 1 (Stage of construction 2)**Forces acting on construction**

Name	F _{hor} [lb/ft]	App.Pt. z [ft]	F _{vert} [lb/ft]	App.Pt. x [ft]	Design coefficient
Weight - wall	0.0	-2.90	2328.1	2.04	1.000
Earthq.- constr.	258.2	-2.93	0.0	2.04	1.000
FF resistance	-193.1	-0.83	0.2	-0.25	1.000
Weight - earth wedge	0.0	-1.24	16.5	4.00	1.000
Earthquake - soil wedge	1.8	-1.24	0.0	4.00	1.000
Weight - earth wedge	0.0	-3.02	84.1	3.32	1.000
Earthquake - soil wedge	9.3	-3.02	0.0	3.32	1.000
Weight - earth wedge	0.0	-6.90	132.9	2.30	1.000
Earthquake - soil wedge	14.6	-6.90	0.0	2.30	1.000
Active pressure	961.1	-2.34	834.5	3.77	1.000
Earthq.- act.pressure	291.7	-4.92	231.1	3.34	1.000

Verification of complete wall**Check for overturning stability**Resisting moment $M_{res} = 9321.0$ lbfft/ftOverturning moment $M_{ovr} = 4406.2$ lbfft/ft

Safety factor = 2.12 > 1.00

Wall for overturning is SATISFACTORY**Check for slip**Resisting horizontal force $H_{res} = 2078.49$ lbf/ftActive horizontal force $H_{act} = 1343.54$ lbf/ft

Safety factor = 1.55 > 1.00

Wall for slip is SATISFACTORY**Overall check - WALL is SATISFACTORY****Dimensioning No. 1 (Stage of construction 2)****Forces acting on construction**

Name	F _{hor} [lb/ft]	App.Pt. z [ft]	F _{vert} [lb/ft]	App.Pt. x [ft]	Design coefficient
Weight - wall	0.0	-0.75	328.1	1.17	1.000
Earthq.- constr.	36.3	-0.59	0.0	1.11	1.000
Weight - earth wedge	0.0	-1.40	132.9	1.39	1.000
Earthquake - soil wedge	14.6	-1.40	0.0	1.39	1.000
Active pressure	43.2	-0.56	21.9	2.30	1.000
Earthq.- act.pressure	32.6	-1.31	32.9	2.17	1.000

Verification of block No. 4**Check for overturning stability**Resisting moment $M_{res} = 689.5$ lbfft/ftOverturning moment $M_{ovr} = 108.8$ lbfft/ft