

LAMPIRAN

Parameter Tanah Dasar

Kedalaman	0,0 – 0,7	0,7 – 2,0	2,0 – 8,0	8,0 – 8,5	8,5 – 23,5	23,5 – 30,0
Jenis	Gravel	Clayey Silt	Clayey Silt	Silty Sand	Sand Gravel	Sand
Material Type	Mohr Coulomb	Soft Soil	Mohr Coulomb	Mohr Coulomb	Mohr Coulomb	Mohr Coulomb
Drainage Type	Drained	Undrained	Undrained	Drained	Drained	Drained
γ_{unsat} [kN/m ³]	21	14,9	14,9	16,9	23	19
γ_{unsat} [kN/m ³]	22	15,9	15,9	17,9	24	20
C [kN/m ²]	-	44	37	2	-	-
ϕ [°]	35	-	-	34,7	41,0	35,7
ν'	0,3	0,3	0,3	0,3	0,3	0,3
E' [kN/m ²]	300.000	-	9.250	9.300	68.400	15.083
K^*	-	0,085	-	-	-	-
λ^*	-	0,017	-	-	-	-

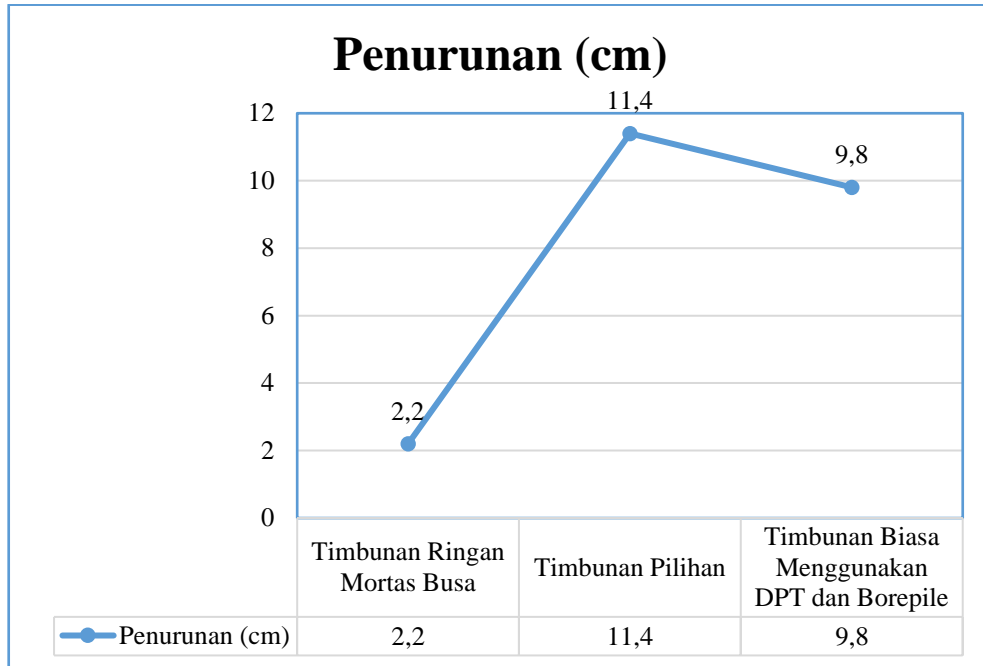
Parameter Timbunan yang Digunakan

Jenis	Material Model	Drainage Type	γ_{unsat} [kN/m ³]	γ_{unsat} [kN/m ³]	ν'	C [kN/m ²]	ϕ [°]	E' [kN/m ²]
Timbunan Ringan 800 kPa	Linier Elastis	Non porous	6	6	0,15	-	-	578.470
Timbunan Pilihan	Mohr-Coulomb	Undrained	17	18	0,3	10	25	10.000
Timbunan Biasa	Mohr-Coulomb	Undrained	15	15	0,3	10	20	9.600
Dindig penahan tanah	Linier Elastic	Non porous	24	24	0,15	-	-	27.805.575
Bore Pile	Linier Elastic	Non porous	24	24	0,15	-	-	27.805.575

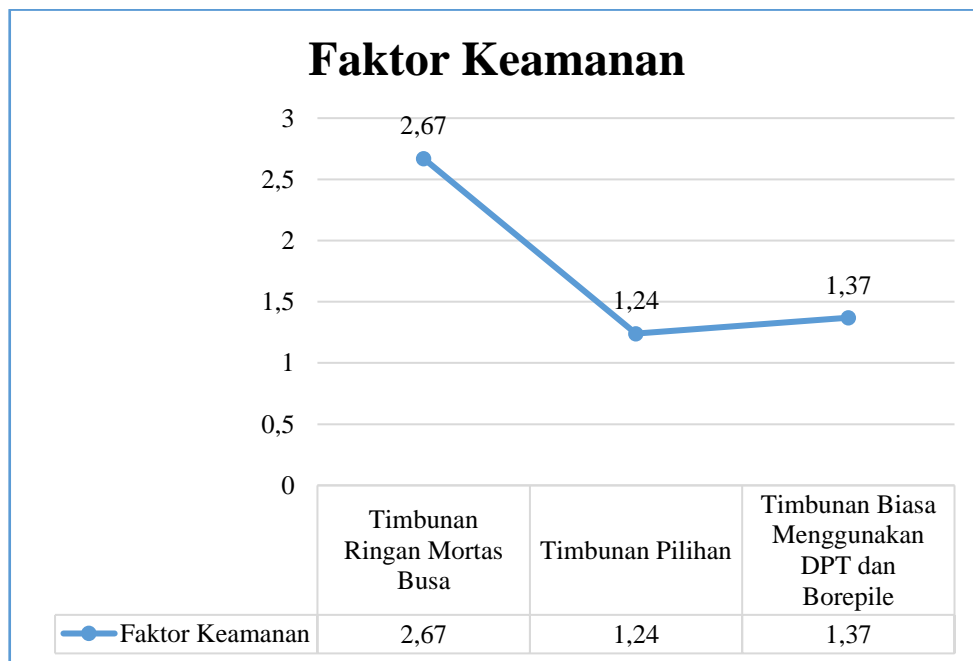
Perbandingan Hasil Analisis Tiga Jenis Timbunan

Jenis timbunan	Penurunan [cm]	Faktor keamanan
Timbunan ringan mortar busa	2,2	2,67
Timbunan pilihan	11,4	1,24
Timbunan biasa menggunakan DPT dan bore pile	9,8	1,37

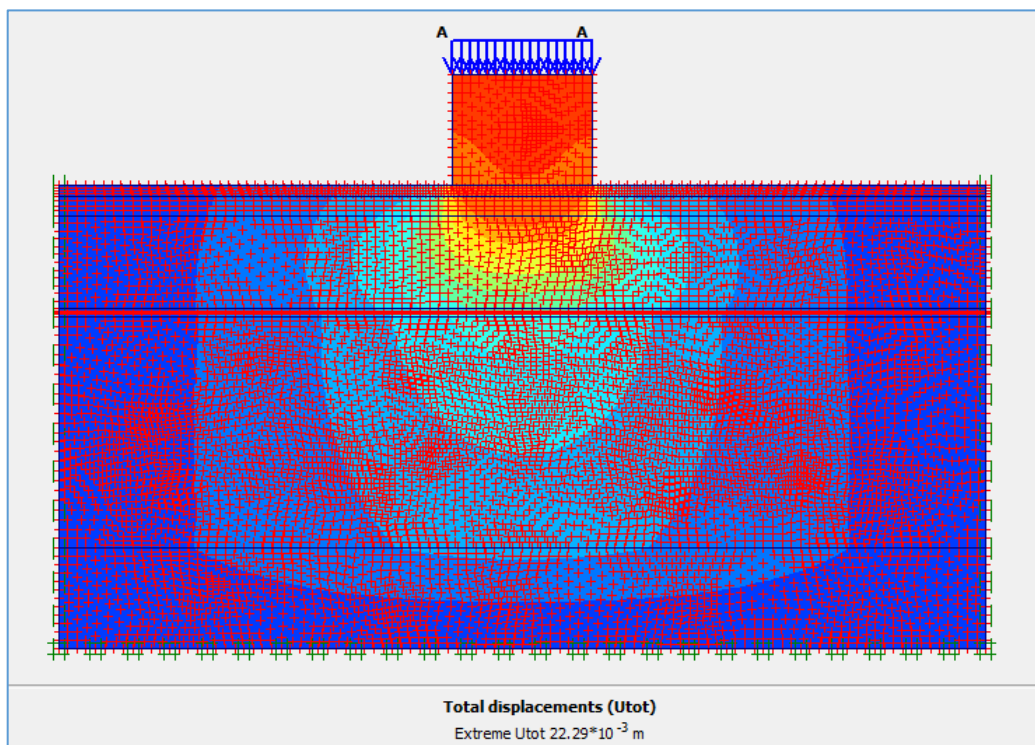
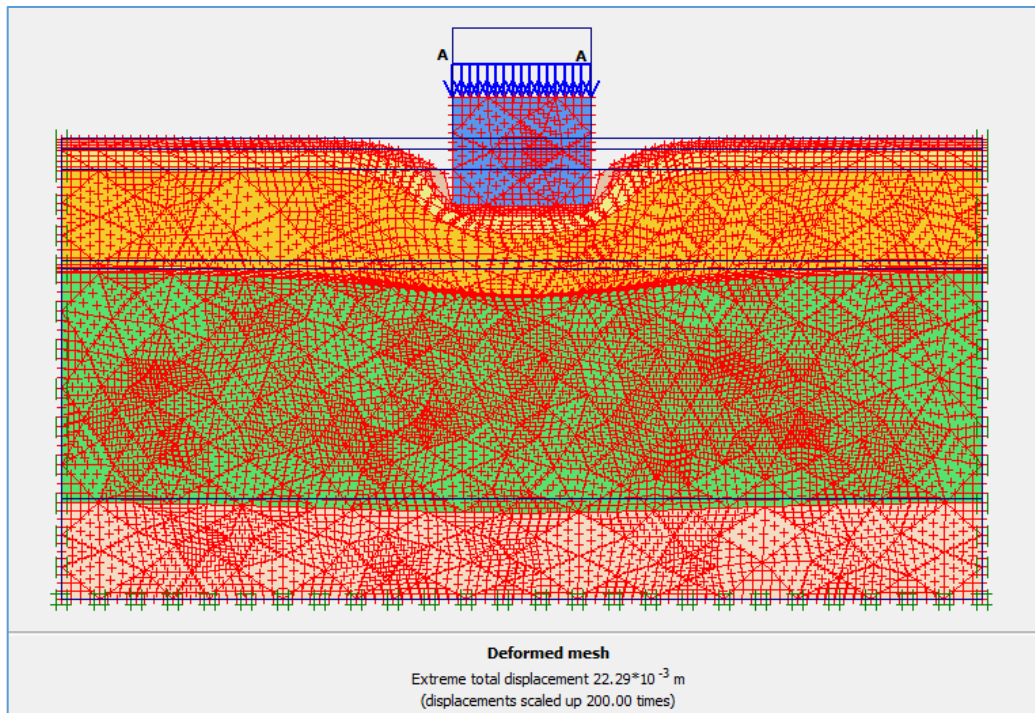
Grafik Perbandingan Penurunan Timbunan



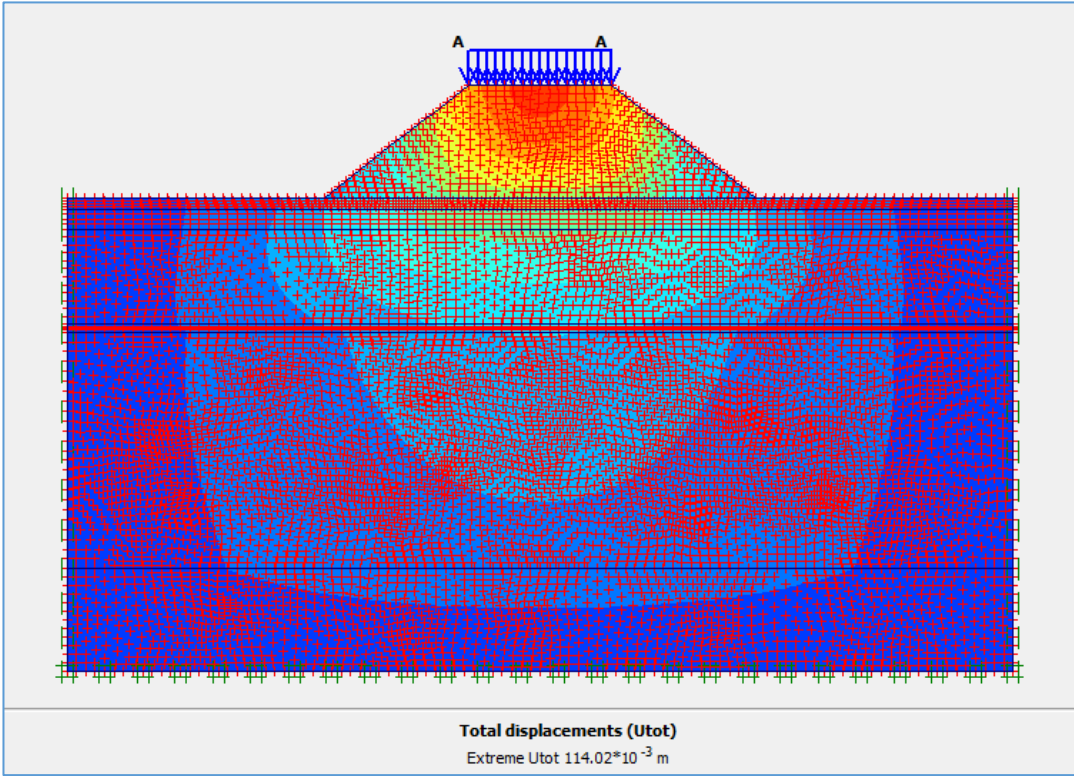
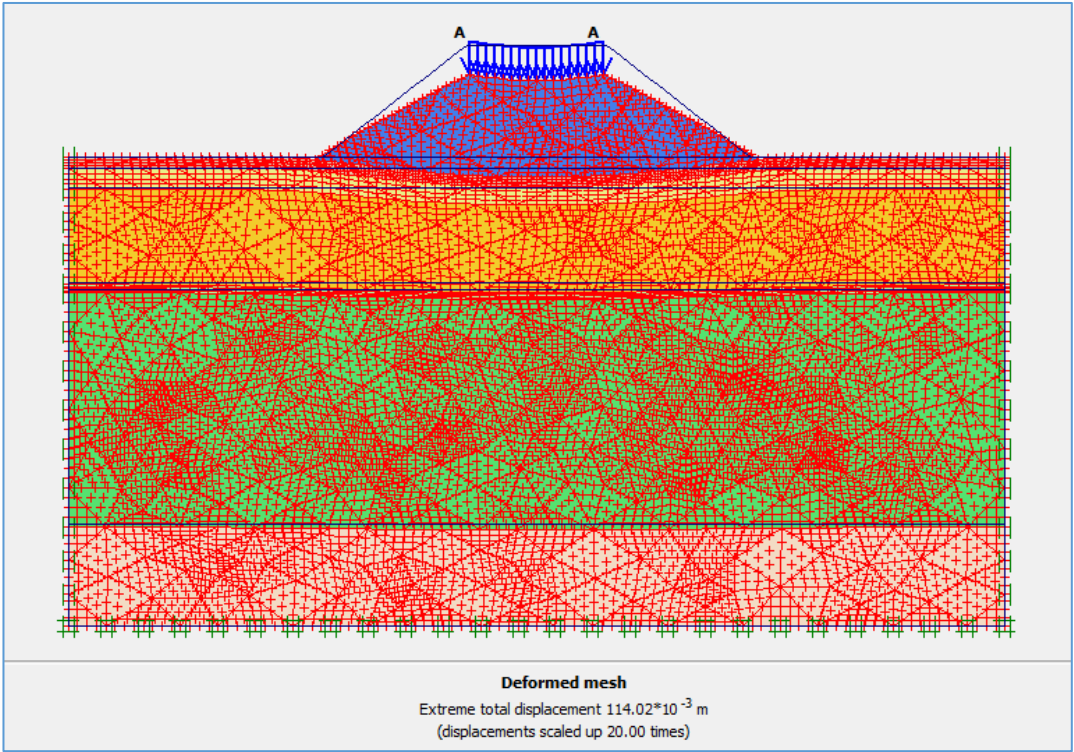
Grafik Perbandingan Stabilitas Faktor Keamanan (FK)



Pola dan Besar Deformasi Pada Timbunan Ringan Mortar Busa



Pola dan Besar Deformasi Pada Timbunan Pilihan



Pola dan Besar Deformasi Pada Timbunan Biasa Menggunakan DPT dan Bore Pile

