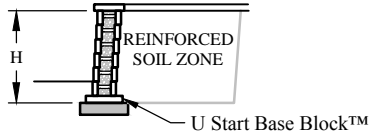
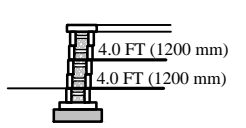
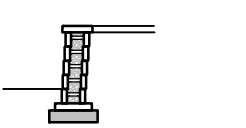
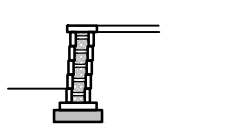
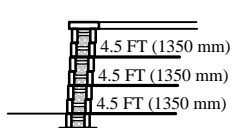
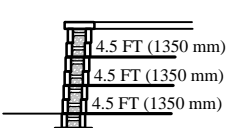
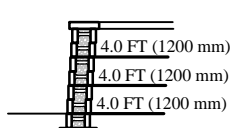
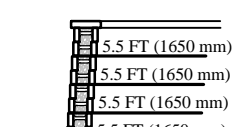
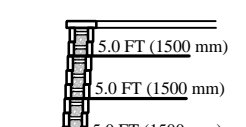
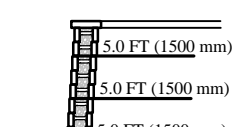
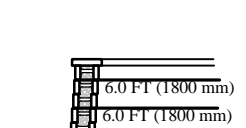
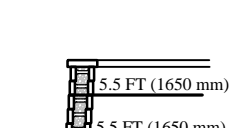
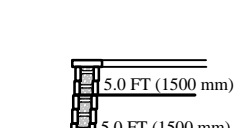
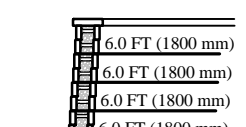
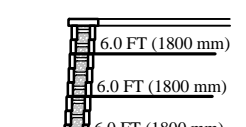
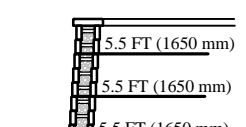
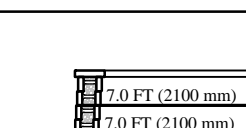
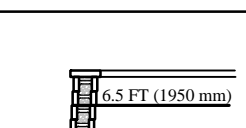
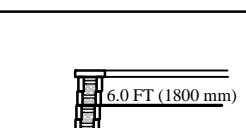
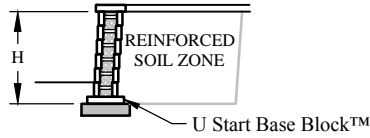


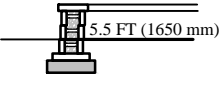
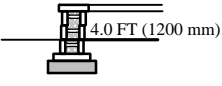
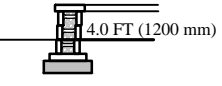
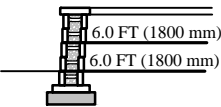
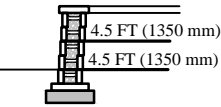
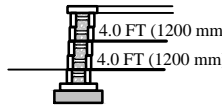
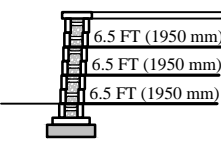
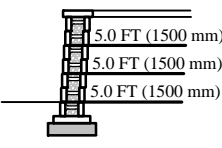
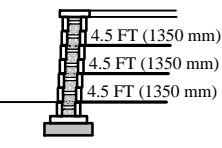
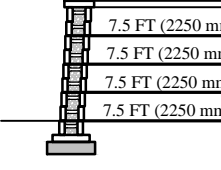
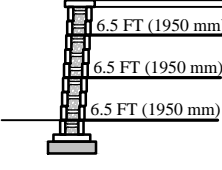
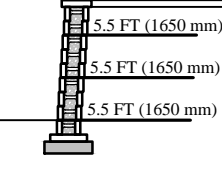
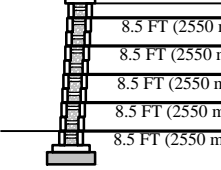
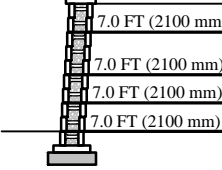
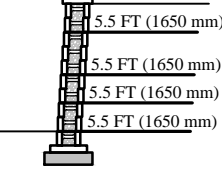
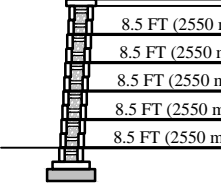
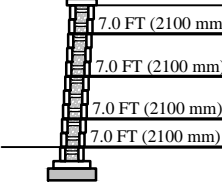
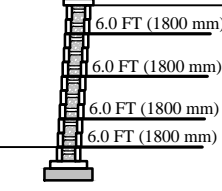
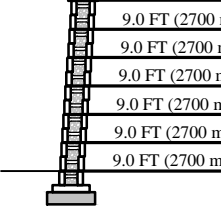
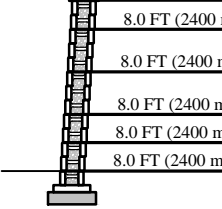
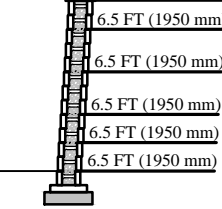
# Estimating Chart for Geosynthetic Reinforcement with Tandem™ Retaining Wall Systems No Slopes and No Surcharges



	Clay and Silt Soils $\phi = 26^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$	Silty / Clayey Sand Soil $\phi = 30^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$	Clean Sand and Gravel Soil $\phi = 34^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$
3'-3" (970 mm) 1 U Start Base Block™ + 5 Courses Tandem™			
4'-5" (1330 mm) 1 U Start Base Block™ + 7 Courses Tandem™			
5'-7" (1680 mm) 1 U Start Base Block™ + 9 Courses Tandem™			
6'-2" (1860 mm) 1 U Start Base Block™ + 10 Courses Tandem™			
6'-10" (2040 mm) 1 U Start Base Block™ + 11 Courses Tandem™			
8'-0" (2390 mm) 1 U Start Base Block™ + 13 Courses Tandem™			

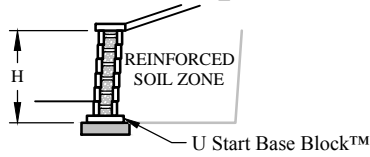
# Estimating Chart for Geosynthetic Reinforcement with Tandem™ Retaining Wall Systems 250 PSF Surcharge



	Clay and Silt Soils $\phi = 26^\circ$ $\gamma = 120 \text{ pcf } (19 \text{ kN/m}^3)$	Silty / Clayey Sand Soil $\phi = 30^\circ$ $\gamma = 120 \text{ pcf } (19 \text{ kN/m}^3)$	Clean Sand and Gravel Soil $\phi = 34^\circ$ $\gamma = 120 \text{ pcf } (19 \text{ kN/m}^3)$
2'-1" (620 mm) 1 U Start Base Block™ + 3 Courses Tandem™			
3'-3" (970 mm) 1 U Start Base Block™ + 5 Courses Tandem™			
4'-5" (1330 mm) 1 U Start Base Block™ + 7 Courses Tandem™			
5'-7" (1680 mm) 1 U Start Base Block™ + 9 Courses Tandem™			
6'-2" (1860 mm) 1 U Start Base Block™ + 10 Courses Tandem™			
6'-10" (2040 mm) 1 U Start Base Block™ + 11 Courses Tandem™			
8'-0" (2390 mm) 1 U Start Base Block™ + 13 Courses Tandem™			



# Estimating Chart for Geosynthetic Reinforcement with Tandem™ Retaining Wall Systems 3:1 Crest Slope



	Clay and Silt Soils $\phi = 26^\circ$ $\gamma = 120 \text{ pcf } (19 \text{ kN/m}^3)$	Silty / Clayey Sand Soil $\phi = 30^\circ$ $\gamma = 120 \text{ pcf } (19 \text{ kN/m}^3)$	Clean Sand and Gravel Soil $\phi = 34^\circ$ $\gamma = 120 \text{ pcf } (19 \text{ kN/m}^3)$
2'-1" (620 mm) 1 U Start Base Block™ + 3 Courses Tandem™			
2'-8" (800 mm) 1 U Start Base Block™ + 4 Courses Tandem™	4.5 FT (1350 mm) 		
3'-3" (970 mm) 1 U Start Base Block™ + 5 Courses Tandem™	4.5 FT (1350 mm) 	4.5 FT (1350 mm) 	4.0 FT (1200 mm) 
4'-5" (1330 mm) 1 U Start Base Block™ + 7 Courses Tandem™	5.5 FT (1650 mm) 	5.0 FT (1500 mm) 	4.5 FT (1350 mm) 
5'-7" (1680 mm) 1 U Start Base Block™ + 9 Courses Tandem™	6.5 FT (1950 mm) 	6.0 FT (1800 mm) 	5.5 FT (1650 mm) 
6'-2" (1860 mm) 1 U Start Base Block™ + 10 Courses Tandem™	7.5 FT (2250 mm) 	6.5 FT (1950 mm) 	5.5 FT (1650 mm) 
6'-10" (2040 mm) 1 U Start Base Block™ + 11 Courses Tandem™	7.5 FT (2250 mm) 	7.0 FT (2100 mm) 	6.0 FT (1800 mm) 
8'-0" (2390 mm) 1 U Start Base Block™ + 13 Courses Tandem™	9.0 FT (2700 mm) 	8.0 FT (2400 mm) 	7.0 FT (2100 mm) 

FOR ESTIMATING PURPOSES ONLY - NOT FOR CONSTRUCTION