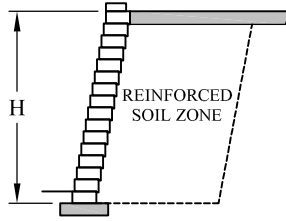
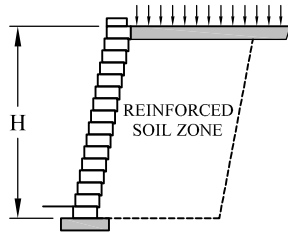


Estimating Chart for Geosynthetic Reinforcement with Highland Stone[®] Retaining Wall Systems No Slopes and No Surcharges



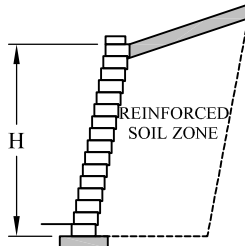
	Clay and Silt Soils $\phi = 26^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$	Silty / Clayey Sand Soil $\phi = 30^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$	Clean Sand and Gravel Soil $\phi = 34^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$
4'-0" (1200 mm) 8 Courses	<p>4.5 FT (1350 mm) 4.5 FT (1350 mm) 4.5 FT (1350 mm) 4.5 FT (1350 mm)</p>	<p>4.0 FT (1350 mm) 4.0 FT (1350 mm)</p>	<p>4.0 FT (1350 mm) 4.0 FT (1350 mm)</p>
6'-0" (1800 mm) 12 Courses	<p>6.5 FT (1950 mm) 6.5 FT (1950 mm) 6.5 FT (1950 mm) 6.5 FT (1950 mm) 6.5 FT (1950 mm) 6.5 FT (1950 mm)</p>	<p>5.0 FT (1500 mm) 5.0 FT (1500 mm) 5.0 FT (1500 mm)</p>	<p>4.5 FT (1350 mm) 4.5 FT (1350 mm) 4.5 FT (1350 mm)</p>
8'-0" (2400 mm) 16 Courses	<p>7.5 FT (2250 mm) 7.5 FT (2250 mm) 7.5 FT (2250 mm) 7.5 FT (2250 mm) 7.5 FT (2250 mm) 7.5 FT (2250 mm) 7.5 FT (2250 mm)</p>	<p>6.0 FT (1800 mm) 6.0 FT (1800 mm) 6.0 FT (1800 mm) 6.0 FT (1800 mm) 6.0 FT (1800 mm)</p>	<p>6.0 FT (1800 mm) 6.0 FT (1800 mm) 6.0 FT (1800 mm) 6.0 FT (1800 mm)</p>
10'-0" (3000 mm) 20 Courses	<p>8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm)</p>	<p>7.5 FT (2250 mm) 7.5 FT (2250 mm) 7.5 FT (2250 mm) 7.5 FT (2250 mm) 7.5 FT (2250 mm)</p>	<p>7.0 FT (2100 mm) 7.0 FT (2100 mm) 7.0 FT (2100 mm) 7.0 FT (2100 mm) 7.0 FT (2100 mm)</p>
12'-0" (3600 mm) 24 Courses	<p>8.5 FT (2550 mm)</p> <p>Wall design to be performed by a professional engineer</p>	<p>8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm)</p>	<p>8.0 FT (2400 mm) 8.0 FT (2400 mm) 8.0 FT (2400 mm) 8.0 FT (2400 mm) 8.0 FT (2400 mm)</p>

Estimating Chart for Geosynthetic Reinforcement with Highland Stone[®] Retaining Wall Systems 250 PSF Surcharge



	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 $\phi = 34^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$
4'-0" (1200 mm) 8 Courses	<p>6.0 FT (1800 mm) 6.0 FT (1800 mm) 6.0 FT (1800 mm) 6.0 FT (1800 mm)</p>	<p>5.0 FT (1500 mm) 5.0 FT (1500 mm)</p>	<p>4.0 FT (1350 mm) 4.0 FT (1350 mm)</p>
6'-0" (1800 mm) 12 Courses	<p>7.5 FT (2250 mm) 7.5 FT (2250 mm) 7.5 FT (2250 mm) 7.5 FT (2250 mm) 7.5 FT (2250 mm) 7.5 FT (2250 mm)</p>	<p>6.0 FT (1800 mm) 6.0 FT (1800 mm) 6.0 FT (1800 mm)</p>	<p>5.0 FT (1500 mm) 5.0 FT (1500 mm) 5.0 FT (1500 mm)</p>
8'-0" (2400 mm) 16 Courses	<p>8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm)</p>	<p>7.0 FT (2100 mm) 7.0 FT (2100 mm) 7.0 FT (2100 mm) 7.0 FT (2100 mm) 7.0 FT (2100 mm)</p>	<p>6.5 FT (1950 mm) 6.5 FT (1950 mm) 6.5 FT (1950 mm) 6.5 FT (1950 mm) 6.5 FT (1950 mm)</p>
10'-0" (3000 mm) 20 Courses	<p>8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm)</p> <p>Wall design to be performed by a professional engineer</p>	<p>8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm)</p>	<p>7.5 FT (2250 mm) 7.5 FT (2250 mm) 7.5 FT (2250 mm) 7.5 FT (2250 mm) 7.5 FT (2250 mm) 7.5 FT (2250 mm)</p>
12'-0" (3600 mm) 24 Courses	<p>9.5 FT (2850 mm) 9.5 FT (2850 mm) 9.5 FT (2850 mm) 9.5 FT (2850 mm) 9.5 FT (2850 mm) 9.5 FT (2850 mm) 9.5 FT (2850 mm) 9.5 FT (2850 mm) 9.5 FT (2850 mm) 9.5 FT (2850 mm) 9.5 FT (2850 mm) 9.5 FT (2850 mm)</p> <p>Wall design to be performed by a professional engineer</p>	<p>9.5 FT (2850 mm) 9.5 FT (2850 mm) 9.5 FT (2850 mm) 9.5 FT (2850 mm) 9.5 FT (2850 mm) 9.5 FT (2850 mm) 9.5 FT (2850 mm)</p>	<p>8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm)</p>

Estimating Chart for Geosynthetic Reinforcement with Highland Stone[®] Retaining Wall Systems 3:1 Crest Slope



	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 $\phi = 34^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$
4'-0" (1200 mm) 8 Courses	<p>4.5 FT (1350 mm) 4.5 FT (1350 mm) 4.5 FT (1350 mm) 4.5 FT (1350 mm)</p>	<p>4.0 FT (1200 mm) 4.0 FT (1200 mm)</p>	<p>4.0 FT (1350 mm) 4.0 FT (1350 mm)</p>
6'-0" (1800 mm) 12 Courses	<p>6.5 FT (1950 mm) 6.5 FT (1950 mm) 6.5 FT (1950 mm) 6.5 FT (1950 mm) 6.5 FT (1950 mm) 6.5 FT (1950 mm)</p>	<p>5.5 FT (1650 mm) 5.5 FT (1650 mm) 5.5 FT (1650 mm)</p>	<p>5.0 FT (1500 mm) 5.0 FT (1500 mm) 5.0 FT (1500 mm)</p>
8'-0" (2400 mm) 16 Courses	<p>8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm)</p>	<p>7.0 FT (2100 mm) 7.0 FT (2100 mm) 7.0 FT (2100 mm) 7.0 FT (2100 mm)</p>	<p>6.5 FT (1950 mm) 6.5 FT (1950 mm) 6.5 FT (1950 mm) 6.5 FT (1950 mm)</p>
10'-0" (3000 mm) 20 Courses	<p>Wall design to be performed by a professional engineer</p>	<p>8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm) 8.5 FT (2550 mm)</p>	<p>7.5 FT (2250 mm) 7.5 FT (2250 mm) 7.5 FT (2250 mm) 7.5 FT (2250 mm) 7.5 FT (2250 mm)</p>
12'-0" (3600 mm) 24 Courses	<p>Wall design to be performed by a professional engineer</p>	<p>11.5 FT (3450 mm) 11.5 FT (3450 mm) 11.5 FT (3450 mm) 11.5 FT (3450 mm) 11.5 FT (3450 mm) 11.5 FT (3450 mm)</p>	<p>9.0 FT (2700 mm) 9.0 FT (2700 mm) 9.0 FT (2700 mm) 9.0 FT (2700 mm) 9.0 FT (2700 mm)</p>