Estimating Chart for Geosynthetic Reinforcement with Castle Manor™ Retaining Wall Systems - 9.5° Batter
No Slopes and No Surcharges

Clay and Silt Soils
φ = 26°
γ = 120 pcf (19 kN/m³)

Silty / Clayey Sand Soil
φ = 30°
γ = 120 pcf (19 kN/m³)

Clean Sand and Gravel Soil
φ = 34°
γ = 120 pcf (19 kN/m³)

4'-0" (1200 mm)
8 Courses

6'-0" (1800 mm)
12 Courses

8'-0" (2400 mm)
16 Courses

10'-0" (3000 mm)
20 Courses

12'-0" (3600 mm)
24 Courses

Wall design to be performed by a professional engineer

1-877-295-5415 www.anchorwall.com
FOR ESTIMATING PURPOSES ONLY - NOT FOR CONSTRUCTION
CM9ECGRNS-A Rev 1-16
## Estimating Chart for Geosynthetic Reinforcement with Castle Manor™ Retaining Wall Systems - 9.5° Batter 250 PSF Surcharge

<table>
<thead>
<tr>
<th>Clay and Silt Soils</th>
<th>Silty / Clayey Sand Soil</th>
<th>Clean Sand and Gravel Soil</th>
</tr>
</thead>
<tbody>
<tr>
<td>ϕ = 26°</td>
<td>ϕ = 30°</td>
<td>ϕ = 34°</td>
</tr>
<tr>
<td>γ = 120 pcf (19 kN/m³)</td>
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<td>γ = 120 pcf (19 kN/m³)</td>
</tr>
</tbody>
</table>

### 4'-0" (1200 mm) 8 Courses
- 4.5 FT (1350 mm)
- 4.5 FT (1350 mm)
- 4.0 FT (1200 mm)
- 4.0 FT (1200 mm)

### 6'-0" (1800 mm) 12 Courses
- 5.5 FT (1650 mm)
- 5.5 FT (1650 mm)
- 5.5 FT (1650 mm)
- 5.5 FT (1650 mm)

### 8'-0" (2400 mm) 16 Courses
- 7.0 FT (2100 mm)
- 7.0 FT (2100 mm)
- 6.5 FT (1950 mm)
- 6.5 FT (1950 mm)

### 10'-0" (3000 mm) 20 Courses
- 9.0 FT (2700 mm)
- 9.0 FT (2700 mm)
- 7.5 FT (2250 mm)
- 7.5 FT (2250 mm)

### 12'-0" (3600 mm) 24 Courses
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# Estimating Chart for Geosynthetic Reinforcement with Castle Manor™ Retaining Wall Systems - 9.5° Batter 3:1 Crest Slope

<table>
<thead>
<tr>
<th>Soil Type</th>
<th>φ (°)</th>
<th>γ (pcf/kN/m²)</th>
<th>Courses</th>
<th>Height (ft/mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clay and Silt Soils</td>
<td>26</td>
<td>120</td>
<td>8</td>
<td>5.0 (1500)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5.0 (1500)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5.0 (1500)</td>
</tr>
<tr>
<td>Silty / Clayey Sand Soil</td>
<td>30</td>
<td>120</td>
<td>12</td>
<td>4.0 (1200)</td>
</tr>
<tr>
<td></td>
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<td>4.0 (1200)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4.0 (1200)</td>
</tr>
<tr>
<td>Clean Sand and Gravel Soil</td>
<td>34</td>
<td>120</td>
<td>16</td>
<td>4.0 (1200)</td>
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<td></td>
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<td></td>
<td></td>
<td>4.0 (1200)</td>
</tr>
</tbody>
</table>

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