# Anchorplex™ Construction with Diamond® 10D Retaining Wall System

## Estimating Chart for Structural Backfill

### 100 PSF Surcharge

<table>
<thead>
<tr>
<th>Soil Type</th>
<th>Height (H)</th>
<th>Angle (θ)</th>
<th>Density (γ)</th>
<th>Surcharge (250 PSF)</th>
<th>Backfill Depth</th>
<th>Backfill CY Calculation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CLAY AND SILT SOIL</strong></td>
<td>H</td>
<td>26°</td>
<td>120pcf (19 kN/m³)</td>
<td>250 PSF (12 kPa) SURCHARGE</td>
<td>1'6&quot; (450 mm)</td>
<td>0.12 x Wall Length = CY of Structural Backfill</td>
</tr>
<tr>
<td><strong>SILTY/CLAYEY SAND SOIL</strong></td>
<td>H</td>
<td>29°</td>
<td>120pcf (19 kN/m³)</td>
<td>250 PSF (12 kPa) SURCHARGE</td>
<td>1'2&quot; (350 mm)</td>
<td>0.10 x Wall Length = CY of Structural Backfill</td>
</tr>
<tr>
<td><strong>CLEAN SAND AND GRAVEL SOIL</strong></td>
<td>H</td>
<td>34°</td>
<td>120pcf (19 kN/m³)</td>
<td>250 PSF (12 kPa) SURCHARGE</td>
<td>1'2&quot; (350 mm)</td>
<td>0.10 x Wall Length = CY of Structural Backfill</td>
</tr>
</tbody>
</table>

### Examples:

- **4 Courses 2' 0" (600 mm):**
  - 1'6" (450 mm)
  - 0.12 x Wall Length = CY of Structural Backfill

- **6 Courses 3' 0" (900 mm):**
  - 1'9" (520 mm)
  - 0.21 x Wall Length = CY of Structural Backfill

- **8 Courses 4' 0" (1200 mm):**
  - 2'2" (650 mm)
  - 0.35 x Wall Length = CY of Structural Backfill

- **10 Courses 5' 0" (1500 mm):**
  - 2'5" (750 mm)
  - 0.51 x Wall Length = CY of Structural Backfill

- **12 Courses 6' 0" (1800 mm):**
  - 2'9" (820 mm)
  - 0.67 x Wall Length = CY of Structural Backfill

- **14 Courses 7' 0" (2100 mm):**
  - 3'2" (950 mm)
  - 0.90 x Wall Length = CY of Structural Backfill

- **16 Courses 8' 0" (2400 mm):**
  - 3'6" (1050 mm)
  - 1.10 x Wall Length = CY of Structural Backfill

### Additional Information:

- **Contact:** 1-877-295-5415
- **Website:** www.anchorwall.com
- **Note:** FOR ESTIMATING PURPOSES ONLY - NOT FOR CONSTRUCTION

**DM10DECSASU-A**