TerraGrid 65

TerraGrid® geogrids are made up of woven high tenacity polyester and coated with a polyvinyl chloride (PVC) coating. TerraGrid geogrids are non-biodegradable and resistant to most soil chemicals, acids, and alkalis with a pH range of 5 to 8. TerraGrid 65 is manufactured to meet or exceed the following machine direction roll value requirements.

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Units</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ultimate Strength</strong></td>
<td>ASTM D 6637</td>
<td>lbs/ft</td>
<td>6,200 (90.5)</td>
</tr>
<tr>
<td>-MD</td>
<td></td>
<td>(kN/m)</td>
<td></td>
</tr>
<tr>
<td><strong>Creep Limited Strength</strong></td>
<td>ASTM D 5262</td>
<td>lbs/ft</td>
<td>3,924 (57.3)</td>
</tr>
<tr>
<td>-MD</td>
<td></td>
<td>(kN/m)</td>
<td></td>
</tr>
<tr>
<td><strong>RF Installation Damage</strong></td>
<td>Soil Type 3</td>
<td>lbs/ft</td>
<td>1.05</td>
</tr>
<tr>
<td>- Dmax 20mm, Pl&lt;20, Dh&lt;0.1-0.5mm</td>
<td></td>
<td>(kN/m)</td>
<td></td>
</tr>
<tr>
<td><strong>RF Installation Damage</strong></td>
<td>Soil Type 2</td>
<td>lbs/ft</td>
<td>1.05</td>
</tr>
<tr>
<td>- Dmax 20mm, Pl&lt;6, Dh&lt;0.7mm</td>
<td></td>
<td>(kN/m)</td>
<td></td>
</tr>
<tr>
<td><strong>RF Installation Damage</strong></td>
<td>Soil Type 1</td>
<td>lbs/ft</td>
<td>1.55</td>
</tr>
<tr>
<td>- Dmax 100mm, Pl&lt;6, Dh&lt;30mm</td>
<td></td>
<td>(kN/m)</td>
<td></td>
</tr>
<tr>
<td><strong>RF Durability</strong></td>
<td></td>
<td></td>
<td>1.10</td>
</tr>
<tr>
<td><strong>RF Creep</strong></td>
<td></td>
<td></td>
<td>1.58</td>
</tr>
</tbody>
</table>

**LONG TERM DESIGN STRENGTH (LTDS or Tal)**

<table>
<thead>
<tr>
<th>Soil Type 3</th>
<th>Dmax 20mm, Pl&lt;20, Dh&lt;0.1-0.5mm</th>
<th>lbs/ft</th>
<th>3,397 (49.6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>-MD</td>
<td></td>
<td>(kN/m)</td>
<td></td>
</tr>
<tr>
<td>Soil Type 2</td>
<td>Dmax 20mm, Pl&lt;6, Dh&lt;0.7mm</td>
<td>lbs/ft</td>
<td>3,397 (49.6)</td>
</tr>
<tr>
<td>-MD</td>
<td></td>
<td>(kN/m)</td>
<td></td>
</tr>
<tr>
<td>Soil Type 1</td>
<td>Dmax 100mm, Pl&lt;6, Dh&lt;30mm</td>
<td>lbs/ft</td>
<td>2,301 (33.6)</td>
</tr>
<tr>
<td>-MD</td>
<td></td>
<td>(kN/m)</td>
<td></td>
</tr>
</tbody>
</table>

**Physical Properties**

<table>
<thead>
<tr>
<th>Roll Size</th>
<th>Width x Length</th>
<th>ft. (m)</th>
<th>12 x 150 (3.66 x 45.7)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area</td>
<td></td>
<td>sq. yds. (sq.m.)</td>
<td>200  (167.2)</td>
</tr>
</tbody>
</table>

**Notes:**

1. Denotes machine direction strength (Uniaxial Strength)
2. Minimum Average Roll Values for machine direction unless otherwise noted (Lot Average minus 2 x Standard Deviation)
3. LTDS or Tal = Tult / (RF creep x RF installation damage x RF durability)
4. Roll Weights are average values including shipping cores. Actual roll weights may vary.

TerraGrid soil and segmental retaining wall unit interface properties are available upon request.

For Permanent walls the Tal needs to be factored for uncertainties; Typically RF uncertainties = 1.5

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2015-07-01