Product Specification - TriAx® TX160 Geogrid

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General
1. The geogrid is manufactured from a punched polypropylene sheet, which is then oriented in three substantially equilateral directions so that the resulting ribs shall have a high degree of molecular orientation, which continues at least in part through the mass of the integral node.
2. The properties contributing to the performance of a mechanically stabilized layer include the following:

<table>
<thead>
<tr>
<th>Index Properties</th>
<th>Longitudinal</th>
<th>Diagonal</th>
<th>Transverse</th>
<th>General</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rib pitch(^{(2)}), mm (in)</td>
<td>40 (1.60)</td>
<td>40 (1.60)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Mid-rib depth(^{(2)}), mm (in)</td>
<td>-</td>
<td>1.6 (0.06)</td>
<td>1.4 (0.06)</td>
<td>-</td>
</tr>
<tr>
<td>Mid-rib width(^{(2)}), mm (in)</td>
<td>-</td>
<td>1.0 (0.04)</td>
<td>1.2 (0.05)</td>
<td>-</td>
</tr>
<tr>
<td>Rib shape</td>
<td></td>
<td></td>
<td></td>
<td>rectangular</td>
</tr>
<tr>
<td>Aperture shape</td>
<td></td>
<td></td>
<td></td>
<td>triangular</td>
</tr>
</tbody>
</table>

Structural Integrity
- Junction efficiency\(^{(1)}\), % | 93 |
- Aperture stability\(^{(4)}\), kg-cm/deg @ 5.0kg-cm \(^{(2)}\) | 3.6 |
- Radial stiffness at low strain\(^{(5)}\), kN/m @ 0.5% strain (lb/ft @ 0.5% strain) | 300 (20,580) |

Durability
- Resistance to chemical degradation\(^{(6)}\) | 100% |
- Resistance to ultra-violet light and weathering\(^{(7)}\) | 100% |

Dimensions and Delivery
The TX Geogrid shall be delivered to the jobsite in roll form with each roll individually identified and nominally measuring 3.0 meters (9.8 feet) and/or 4.0 meters (13.1 feet) in width and 75 meters (246 feet) in length.

Notes
1. Unless indicated otherwise, values shown are minimum average roll values determined in accordance with ASTM D4759-02. Brief descriptions of test procedures are given in the following notes.
2. Nominal dimensions.
3. Load transfer capability determined in accordance with GRI-GG2-87 and GRI-GG1-87 and expressed as a percentage of ultimate tensile strength.
4. In-plane torsional rigidity measured by applying a moment to the central junction of a 225mm x 225mm specimen restrained at its perimeter in accordance with GRI-GG9 modified.
5. Radial stiffness is determined from tensile stiffness measured in any in-plane axis from testing in accordance with ASTM D6637-10.
6. Resistance to loss of load capacity or structural integrity when subjected to chemically aggressive environments in accordance with EPA 9090 immersion testing.
7. Resistance to loss of load capacity or structural integrity when subjected to 500 hours of ultraviolet light and aggressive weathering in accordance with ASTM D4355-05.

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