**REFERENCES: INTERNATIONAL BUILDING CODE 2012 AND ASCE STANDARD 7 - 2010**

User Input = SELECT ALL GREY CELL INPUT VALUES FROM RESPECTIVE DROP DOWN MENU

<table>
<thead>
<tr>
<th>Input Variables:</th>
<th>Units</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT Solar Part Number=</td>
<td>8-TOP-12-60-C</td>
<td></td>
</tr>
<tr>
<td>Array Configuration=</td>
<td>4x3</td>
<td>REQUIRED OWNER SUPPLIED DATA</td>
</tr>
<tr>
<td>Array Dim (North-South), A=</td>
<td>13.33 ft</td>
<td></td>
</tr>
<tr>
<td>Array Dim (East-West), B=</td>
<td>16.50 ft</td>
<td></td>
</tr>
<tr>
<td>Tilt Angle, ϑ =</td>
<td>5 degrees</td>
<td>REQUIRED OWNER SUPPLIED DATA</td>
</tr>
<tr>
<td>Clear Height, h=</td>
<td>4 ft</td>
<td>REQUIRED OWNER SUPPLIED DATA</td>
</tr>
<tr>
<td>Ultimate Wind Speed=</td>
<td>90 MPH</td>
<td>REQUIRED OWNER SUPPLIED DATA</td>
</tr>
<tr>
<td>Exposure Category=</td>
<td>B</td>
<td>SEE ASCE 7-10 SECTIONS 26.7.2 &amp; 26.7.3, GENERIC DEFINITIONS’ BELOW</td>
</tr>
<tr>
<td>Ground Snow Load, Pg=</td>
<td>4</td>
<td>REQUIRED OWNER SUPPLIED DATA</td>
</tr>
<tr>
<td>Soil Type=</td>
<td>4) Sand, silty sand, clayey sand, silty gravel and clayey gravel (SW,SP, SM, SC, GM an</td>
<td>OWNER VERIFICATION REQUIRED</td>
</tr>
<tr>
<td>Soil Allowable Lateral Bearing =</td>
<td>150 psf/ft</td>
<td></td>
</tr>
<tr>
<td>Soil Allowable Vertical Bearing=</td>
<td>2000 psf</td>
<td></td>
</tr>
<tr>
<td>Footing Type=</td>
<td>Square</td>
<td>OWNER VERIFICATION REQUIRED</td>
</tr>
<tr>
<td>Footing Length=Footing Width, W=</td>
<td>2.5 ft</td>
<td></td>
</tr>
<tr>
<td>Desired Embedment Depth, ED=</td>
<td>5 ft</td>
<td></td>
</tr>
<tr>
<td>Desired Mast Pipe Size=</td>
<td>6&quot; DIA SCH 40 (WALL THK= 0.280&quot;)</td>
<td></td>
</tr>
</tbody>
</table>

**Estimated Material Quantities:**

- Approximate Mast Length, L= 13 ft
- Concrete Volume= 1.2 yd³
- Recommended Reinforcement: B-#4 VERTS W/ 3-#3 TIES AT 6" OC TOP AND #3 TIES @ 12" OC BELOW

**GENERIC EXPOSURE DEFINITIONS**

- **Exposure B:** Urban and suburban areas, wooded areas, or other terrain with numerous closely spaced obstruction having the size of single-family dwellings or larger
- **Exposure C:** Open terrain with scattered obstructions having heights generally less than 30 ft. This category includes flat open country and grasslands.
- **Exposure D:** Flat, unobstructed areas and water surfaces. This category includes smoother mudflats, salt flats and unbroken ice.

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