### Globalblock 400

#### High Wind Load Reinforcement Requirements

#### 2 Story Structure

#### Wind Speed - Exposure Category B

<table>
<thead>
<tr>
<th>Wall Height</th>
<th>100 mph</th>
<th>120 mph</th>
<th>140 mph</th>
<th>160 mph</th>
<th>180 mph</th>
<th>200 mph</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical</td>
<td>Vasd = 77 mph</td>
<td>Vasd = 93 mph</td>
<td>Vasd = 108 mph</td>
<td>Vasd = 124 mph</td>
<td>Vasd = 139 mph</td>
<td>Vasd = 155 mph</td>
</tr>
<tr>
<td>Horizontal</td>
<td>#4 @ 12&quot;</td>
<td>#3 @ 16&quot;</td>
<td>#4 @ 12&quot;</td>
<td>#3 @ 16&quot;</td>
<td>#4 @ 12&quot;</td>
<td>#3 @ 16&quot;</td>
</tr>
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<td>8'</td>
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<tr>
<td>10'</td>
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<td>-</td>
</tr>
<tr>
<td>12'</td>
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</tr>
</tbody>
</table>

#### Wind Speed - Exposure Category C

<table>
<thead>
<tr>
<th>Wall Height</th>
<th>100 mph</th>
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<th>140 mph</th>
<th>160 mph</th>
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</tr>
<tr>
<td>Horizontal</td>
<td>#4 @ 12&quot;</td>
<td>#3 @ 16&quot;</td>
<td>#4 @ 12&quot;</td>
<td>#3 @ 16&quot;</td>
<td>#5 @ 12&quot;</td>
<td>#3 @ 16&quot;</td>
</tr>
<tr>
<td>8'</td>
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<tr>
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<tr>
<td>12'</td>
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</tr>
</tbody>
</table>

#### Assumptions:

- Dead load = 25 psf.
- Live floor load = 40 psf.
- Live roof load = 20 psf.
- No snow load.
- No seismic load.
- Maximum clear span for floor trusses is 24'-0".
- Maximum clear span for roof trusses is 40'-0".
- Maximum mean roof height is 30'-0".
- Maximum (2) stories.
- Concrete strength: $f'c = 3,000$ psi
- Reinforcement steel strength: $fy = 60,000$ psi