TYPICAL USE

Bracket

Beam

90x90mm Post

12mm Coach screws (110mm min. penetration)

Bracket

90x90mm Post

Poured concrete 17MPa

12mm Dynabolt (Shank size 10mm)

BRACKET RANGE

→ B51, B52, B53, B54, B55, B58, B351, B353 and B354

FIXING NOTE

→ All bolt holes accommodate M12 Bolt unless noted.

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For minimum volume of concrete required for each bracket refer to chart below.

2 brackets per post

Minimum concrete strength 17MPa

**EXAMPLE AREAS**

- Tributary roof area on connection 'C' = (S/2+O/H) x (B/2+O/H)
- Tributary roof area on connection 'C2' = (S/2+O/H) x B

**Max. Concrete Flooring Volume Requirement**

<table>
<thead>
<tr>
<th>Roof Type</th>
<th>Wind Zone</th>
<th>Volume of footing concrete (m³) for area of roof supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light*</td>
<td>Extra High</td>
<td>0.09 0.16 0.32 0.49 0.61 0.79 1.00</td>
</tr>
<tr>
<td></td>
<td>Very High</td>
<td>0.07 0.13 0.26 0.40 0.50 0.65 0.80</td>
</tr>
<tr>
<td></td>
<td>High</td>
<td>0.05 0.10 0.20 0.30 0.40 0.50 0.60</td>
</tr>
<tr>
<td></td>
<td>Medium</td>
<td>0.03 0.05 0.10 0.15 0.20 0.25 0.30</td>
</tr>
<tr>
<td></td>
<td>Low</td>
<td>0.02 0.03 0.07 0.10 0.15 0.15 0.20</td>
</tr>
<tr>
<td>Heavy*</td>
<td>Extra High</td>
<td>0.05 0.09 0.16 0.25 0.32 0.39 0.49</td>
</tr>
<tr>
<td></td>
<td>Very High</td>
<td>0.04 0.07 0.13 0.20 0.26 0.32 0.40</td>
</tr>
<tr>
<td></td>
<td>High</td>
<td>0.03 0.05 0.10 0.15 0.20 0.25 0.30</td>
</tr>
<tr>
<td></td>
<td>Medium/Low</td>
<td>No securement for uplift required</td>
</tr>
</tbody>
</table>

**Load Table**

<table>
<thead>
<tr>
<th>Roof Type</th>
<th>Wind Load</th>
<th>Max. Roof Area (m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light*</td>
<td>Extra High</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Very High</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>High</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Medium/Low</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Low</td>
<td>12</td>
</tr>
<tr>
<td>Heavy*</td>
<td>Extra High</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Very High</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>High</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Medium/Low</td>
<td>12</td>
</tr>
</tbody>
</table>

*Refer to NZS 3604:2011 for specific roof weights.

Concrete volumes for roof area beyond 12m² can be increased on pro-rate basis.

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