POST & BEARER BRACKETS

Bracket (Saddle, Rag Strap or Pipe Insert)

Poured concrete 17.5MPa

Post, maximum specification:
- B132 - 100x50mm.
- All other brackets in bracket range - 100x100mm.
- Timber to be minimum No.1 framing grade Radiata Pine or Douglas Fir, treated to NZS 3602:2003.

Bracket Range
- B12, B16, B18, B25, B28, B75, B78, B79, B132, B134, B135, B138, B195, B196, B197 and B198*
  (*holes for M10 Bolt)

Fixing Note
- All bolt holes accommodate M12 Bolt unless noted.
- Nail holes to accommodate 40mm x 3.15 dia. flat head square twisted shank nails. Hot dip galvanised.

Typical Use

1. Saddle
   - Chamfer post for full bearing on bracket
   - Min. edge distance for bracket stem
   - 150mm min. embedment
   - Bolts Only
   - 25mm

2. Rag Strap
   - Min. edge distance for bracket stem
   - 150mm min. embedment
   - Bolts & Nails
   - 25mm
   - 25mm
   - 75mm min.

3. Pipe Insert
   - Hole size for pipe, allow 1mm clearance max.
   - Min. edge distance for bracket stem
   - 150mm min. embedment
   - M10 bolt
   - 25mm

On-Site Fitted Dimensions
For minimum volume of concrete required for each bracket refer to chart below.

Minimum concrete strength 17MPa

**EXAMPLE AREAS**

- Tributary roof area on connection ‘C1’ = (S/2 + O/H) x (B/2 + O/H)
- Tributary roof area on connection ‘C2’ = (S/2 + O/H) x B

**BRACKET TYPE**

- **Type 1**: B134 and B198
- **Type 2**: B12, B18, B25, B28, B132, B135, B138, B195 and B196
- **Type 3**: B16, B75, B78, B79 and B197

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

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

**LOAD TABLE**

<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></td>
<td></td>
<td>1m²</td>
</tr>
<tr>
<td>Light</td>
<td>Extra high</td>
<td>0.09</td>
</tr>
<tr>
<td></td>
<td>Very high</td>
<td>0.07</td>
</tr>
<tr>
<td></td>
<td>High</td>
<td>0.05</td>
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<tr>
<td></td>
<td>Medium</td>
<td>0.03</td>
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<tr>
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<td>Extra high</td>
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<tr>
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<tr>
<td></td>
<td>High</td>
<td>0.04</td>
</tr>
<tr>
<td></td>
<td>Medium/Low</td>
<td>0.03</td>
</tr>
</tbody>
</table>

* No securement for uplift required

**MAX. CONCRETE FOOTING VOLUME TABLE**

**BOWMAC® STRUCTURAL BRACKETS**

**DESIGN DETAILS**

**FOUNDATION DETAILS**

<table>
<thead>
<tr>
<th>Connection 'C1'</th>
<th>Tributary roof area for connection 'C1'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection 'C2'</td>
<td>Tributary roof area for connection 'C2'</td>
</tr>
</tbody>
</table>

**SECTION A**

**SCALE: NTS**