All purlin and batten sizes are as per NZS 3604:2011.

All fixings assume that the purlin and battens are installed on their flat over the top of the rafter or truss.

The minimum fixing requirements apply to all purlin locations with the roof area.

The LUMBERLOK BLUE SCREW where specified requires a minimum of 30mm penetration into rafter or truss. i.e. it is suitable for rough sawn timber up to 50mm thick at 18% moisture content.

### SELECTION CHART FIXING OPTIONS
(mimum fixing requirements)

<table>
<thead>
<tr>
<th>ROOF WEIGHT</th>
<th>MAX. PURLIN SPAN (mm)</th>
<th>MAX. PURLIN CRS. (mm)</th>
<th>WIND ZONE</th>
<th>L</th>
<th>M</th>
<th>H</th>
<th>VH</th>
<th>EH</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEAVY ROOF Tile Battens</td>
<td>900</td>
<td>370</td>
<td>A A A A A A</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIGHT ROOF Tile Battens</td>
<td>900</td>
<td>370</td>
<td>A A B C C</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1200</td>
<td>370</td>
<td>A B C C C</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>LIGHT ROOF Purlins</td>
<td>900</td>
<td>900</td>
<td>C C C C D</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1200</td>
<td>900</td>
<td>C C C D D</td>
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<tr>
<td></td>
<td>1200</td>
<td>1200</td>
<td>C C D E E</td>
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<td></td>
</tr>
</tbody>
</table>

Wind Zone: As per NZS 3604:2011
L = Low Wind
M = Medium Wind
H = High Wind
VH = Very High Wind
EH = Extra High Wind

AVAILABLE FROM LEADING BUILDERS SUPPLY MERCHANTS THROUGHOUT NEW ZEALAND

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**PURLIN & BATTEN FIXING CHART**

**FIXING TYPE A**  
0.55kN  
**1 NAIL**  
Note: Two nails maybe preferred to prevent batten rolling over with high roof pitches.

**FIXING TYPE B**  
0.8kN  
**2 NAILS**

**FIXING TYPE C**  
2.4kN  
**1 BLUE SCREW**

**FIXING TYPE D**  
3.45kN  
**2 BLUE SCREWS**  
**OR**  
**2 SKEW NAILS plus 2 WIRE DOGS**  
(for purlin on edge)

**FIXING TYPE E**  
5.5kN  
**2 NAILS plus 1 CT200**  
**OR**  
**1 PAIR of CPC40**

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**FIXING DEFINITIONS**

<table>
<thead>
<tr>
<th>Nail</th>
<th>Either 90mm x 3.15 dia. power-driven nail or 100mm x 3.75 dia, hand driven nail</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLUE SCREW</td>
<td>80mm x 10 gauge LUMBERLOK BLUE SCREW</td>
</tr>
<tr>
<td>WIRE DOG</td>
<td>LUMBERLOK WIRE DOG either LH or RH</td>
</tr>
<tr>
<td>CT200</td>
<td>LUMBERLOK Ceiling tiew CT200 bend over purlin, 4 x LUMBERLOK product nails 30mm x 3.15 dia. each end.</td>
</tr>
<tr>
<td>CTC40</td>
<td>LUMBERLOK CPC40 with 2 x Type 17-14g x 35mm Hex Head screws per flange</td>
</tr>
</tbody>
</table>

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**FIXING TOLERANCES**

**LUMBERLOK BLUE SCREW**

- **TYPE C**  
  1 SCREW to each purlin

- **TYPE D & E**  
  1 NAIL plus 1 SCREW to each purlin

**PURLIN / BATTEN SPLICE FIXING OPTIONS**

- **TYPE A & B OVER PURLIN SPLICE**
  1 nail in each
  - **NOTE:**  
    Skew nail when fixing to 35mm rafter or truss

- **TYPE C, D or E OVER PURLIN SPLICE**
  90 x 35mm block fixed to chord or rafter with 4 x 75mm nails

**NOTE:**  
Locate fixings within the shaded area. Care to be taken to avoid over tightening of screws.