STUD-LOK
Provides a solution for top plate to stud fixings for residential timber frame buildings

- Complies with fixing requirements in Section 8 NZS 3604:2011
- The BOWMAC® STUD-LOK forms an integral part of the MiTek Truss & Frame design and layout
- Available in 2 lengths allowing for connections from stud to single top plate (SL125) and stud to double top plates (SL170)
- Applied in the factory
- Is a completely internal connection avoiding any clashes with wall linings
**DOUBLE TOP PLATES DEFINITION**

- Very top plate
- Top plate
- Stud

- Capping plate
- Top plate
- Stud

**LOAD DIMENSION DEFINITION**

- External wall with Standard truss
- Ridge beam
- Supported Span

- External wall with Internal load bearing wall
- Jack truss
- Girder truss
- Supported Span

- Internal load bearing wall
  (overhang dimension does not apply)

- Load bearing wall

**FIXING SELECTION CHART**

(Suitable for walls supporting roof members at 600, 900 or 1200mm crs.)

<table>
<thead>
<tr>
<th>Loaded Dimension (m)</th>
<th>Light Roof Wind Zone</th>
<th>Heavy Roof Wind Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>300mm</td>
<td>400mm</td>
<td>600mm</td>
</tr>
<tr>
<td>3.0</td>
<td>2.3</td>
<td>1.5</td>
</tr>
<tr>
<td>4.0</td>
<td>3.0</td>
<td>2.0</td>
</tr>
<tr>
<td>5.0</td>
<td>3.8</td>
<td>2.5</td>
</tr>
<tr>
<td>6.0</td>
<td>4.5</td>
<td>3.0</td>
</tr>
<tr>
<td>7.0</td>
<td>5.3</td>
<td>3.5</td>
</tr>
<tr>
<td>8.0</td>
<td>6.0</td>
<td>4.0</td>
</tr>
<tr>
<td>9.0</td>
<td>6.8</td>
<td>4.5</td>
</tr>
<tr>
<td>10.0</td>
<td>7.5</td>
<td>5.0</td>
</tr>
<tr>
<td>11.0</td>
<td>8.3</td>
<td>5.5</td>
</tr>
<tr>
<td>12.0</td>
<td>9.0</td>
<td>6.0</td>
</tr>
</tbody>
</table>

**NOTE:**
- The STUD-LOK fixing is designed to resist vertical loads only.
- Refer to Table 8.19 NZS 3604:2011 for nailing schedule to resist lateral loads.
- The STUD-LOK connections assume that the correct choice of rafter/truss fixings have been made.
- Wall framing arrangements under girder trusses are not covered in this schedule.
- All timber selections are as per NZS 3604:2011 and include LVL8 timber grades.

- Supported Span
- O/H

- EXTERNAL WALL
  LOADED DIMENSION = SUPPORTED SPAN + O/H

- INTERNAL LOAD BEARING WALL
  LOADED DIMENSION = TOTAL SPAN / 2

- MULTIPLE INTERNAL LOAD BEARING WALLS
  LOADED DIMENSION FOR WALL A = a / 2
  WALL B = b / 2

- 2N = 2/ 90mm x 3.15 dia. nails
- SL = Single STUD-LOK plus 2/ 90mm x 3.15 dia. nails

**NOTE:**
To calculate the number of STUD-LOK fixings required, divide the wall length by the stud centres, add 1 to this figure and locate this number of fixings as evenly as possible along the wall length. This figure includes the start and end studs in each wall length.