GABLE END RAKING VERGE
OVERHANG OPTIONS

★ Covers raking verge using standard purlin overhang options.
★ Covers up to 750mm overhang using standard verge outriggers.
★ Covers up to 1200mm overhang using verge outrigger/purlin combination.
OVERHANG OPTIONS

• All gable end loading parameters are based on the design considerations used in NZS 3604:2011 and cover heavy roof weight, extra high wind load and snow load Sg of up to 1.0kPa.
• All live load considerations as per AS/NZS 1170.
• All timber to be minimum grade SG8 as defined in NZS 3604:2011.

CANTILEVER PURLIN OPTION

![Cantilever Purlin Option Diagram]

TABLE 1

<table>
<thead>
<tr>
<th>PURLIN SIZE &amp; ORIENTATION</th>
<th>MAX. CANTILEVER LENGTH (mm)</th>
<th>PURLIN CENTRES (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>45x45</td>
<td>200</td>
<td>400</td>
</tr>
<tr>
<td>70x45</td>
<td>300</td>
<td>900</td>
</tr>
<tr>
<td>90x45</td>
<td>450</td>
<td>900</td>
</tr>
</tbody>
</table>

CANTILEVER OUTRIGGER OPTION

(Note: Maximum sidewall overhang of 750mm)
(See details on next pages)

TABLE 2

<table>
<thead>
<tr>
<th>OUTRIGGER SIZE &amp; ORIENTATION</th>
<th>MAX. CANTILEVER LENGTH (mm)</th>
<th>OUTRIGGER CENTRES (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>70x45</td>
<td>750</td>
<td>600</td>
</tr>
<tr>
<td></td>
<td>600</td>
<td>900</td>
</tr>
<tr>
<td>90x45</td>
<td>750</td>
<td>900</td>
</tr>
<tr>
<td></td>
<td>600</td>
<td>1200</td>
</tr>
<tr>
<td>90x45</td>
<td>750</td>
<td>400</td>
</tr>
<tr>
<td></td>
<td>600</td>
<td>600</td>
</tr>
</tbody>
</table>

CANTILEVER OUTRIGGER/PURLIN COMBINATION OPTION

(Note: Maximum sidewall overhang of 1200mm)
(See details on next pages)

TABLE 3

<table>
<thead>
<tr>
<th>OUTRIGGER SIZE &amp; ORIENTATION</th>
<th>MAX. CANTILEVER LENGTH (mm)</th>
<th>OUTRIGGER CENTRES (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>45x45 Purlin 90x45 Outrigger</td>
<td>1200</td>
<td>450</td>
</tr>
<tr>
<td>70x45 Purlin 90x45 Outrigger</td>
<td>1200</td>
<td>700</td>
</tr>
<tr>
<td>90x45 Purlin 90x45 Outrigger</td>
<td>1200</td>
<td>900</td>
</tr>
</tbody>
</table>
CONSTRUCTION DETAILS FOR CANTILEVER OUTRIGGER OPTION

(SPANS & CENTRES AS PER TABLE 2)

CROSS SECTION

LAYOUT
CONSTRUCTION DETAILS FOR OUTRIGGER/PURLIN COMBINATION

(SPANS & CENTRES AS PER TABLE 3)

CANTILEVER LENGTH 760MM TO MAX. 1200MM

LUMBERLOK CT200 both sides fully nailed with 30 x 3.15mm plus 2/ 90mm skew driven nails

Purlin directly over outrigger. Fix with 90mm nails @ 50mm crs.

LUMBERLOK Joist Hanger JH47x90 fully nailed with 30 x 3.15mm

Outrigger lined up directly below each purlin. See Table 3 for size and orientation

Fix purlins to outrigger with 90mm nails @ 50mm crs.

First outrigger combination to be directly over end wall

3/ 90mm nails plus 1/ LUMBERLOK Multigrip fully nailed with 30 x 3.15mm

LUMBERLOK Strap Nail each side

Fix first fly rafter at each purlin/outrigger with 4/ 90mm nails up to purlin number 4. Fix outer fly rafter to first fly rafter with 90mm nails @ 150mm crs. staggered

Top dropped gable end truss/rafter

Double standard rafter/truss or special design

Minimum dimension 1.5 times the cantilever length

LUMBERLOK CPC80 fixed with 4/ 14g screws per flange to back block and truss rafters and fly rafter

Cantilever length 760mm to max. 1200mm

Fly rafter to be at least same size as outrigger combinations ie. minimum 140x45

Top dropped gable end truss/rafter

And LUMBERLOK CT200 both sides fully nailed with 30 x 3.15mm plus 2/ 90mm skew driven nails

Min. 2/ 90mm nails to rafter/truss plus LUMBERLOK Joist Hanger JH47x90 fully nailed with 30 x 3.15mm

Packer @1000mm crs.

Note: Ceiling Joists as per NZS 3604:2011

CONSTRUCTION DETAILS FOR OUTRIGGER/PURLIN COMBINATION

(SPANS & CENTRES AS PER TABLE 3)