



# VPC-TIP

October 6, 2003

## Secondary Charts

The following charts will assist you in choosing a Wall and/or Roof secondary member depth based upon your loading and member span. Please note that these are only suggested guidelines and when the member depths are close, you should run both depths to see what is best based upon all conditions for your actual building.

End Bay Purlins - Continuous Span																					
Bay space	20'	21'	22'	23'	24'	25'	26'	27'	28'	29'	30'	31'	32'	33'	34'	35'	36'	37'	38'	39'	40'
20 PSF	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"
23 PSF	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"
25 PSF	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"
28 PSF	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"
30 PSF	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"
33 PSF	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"

Interior Bay Purlins - Continuous Span																					
Bay space	20'	21'	22'	23'	24'	25'	26'	27'	28'	29'	30'	31'	32'	33'	34'	35'	36'	37'	38'	39'	40'
20 PSF	6.5"	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"
23 PSF	6.5"	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"
25 PSF	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"
28 PSF	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"
30 PSF	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"
33 PSF	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"	11.5"

80 MPH Continuous Span Girts (Outset only)											
Bay space	20'	21'	22'	23'	24'	25'	26'	27'	28'	29'	30'
10' eave	6.5"	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"
11' eave	6.5"	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"
12' eave	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
13' eave	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
14' eave	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
15' eave	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
16' eave	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
17' eave	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
18' eave	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
19' eave	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
20' eave	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
21' eave	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
22' eave	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
23' eave	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
24' eave	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
25' eave	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
26' eave	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
27' eave	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
28' eave	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
29' eave	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
30' eave	6.5"	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"



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80 MPH Simple Span Girts (Outset or Inset)											
Bay space	20'	21'	22'	23'	24'	25'	26'	27'	28'	29'	30'
10' eave through 30' eave	8.5" is always the most economical										

90 MPH Continuous Span Girts (Outset only)											
Bay space	20'	21'	22'	23'	24'	25'	26'	27'	28'	29'	30'
10' eave	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
11' eave	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
12' eave	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
13' eave	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
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16' eave	6.5"	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
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19' eave	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
20' eave	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
21' eave	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
22' eave	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
23' eave	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
24' eave	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
25' eave	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
26' eave	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
27' eave	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
28' eave	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
29' eave	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"
30' eave	6.5"	6.5"	6.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"

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100 MPH & Over Continuous Span Girts (Outset only)											
Bay space	20'	21'	22'	23'	24'	25'	26'	27'	28'	29'	30'
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