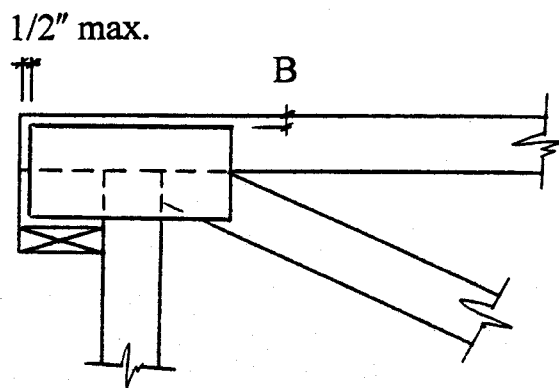


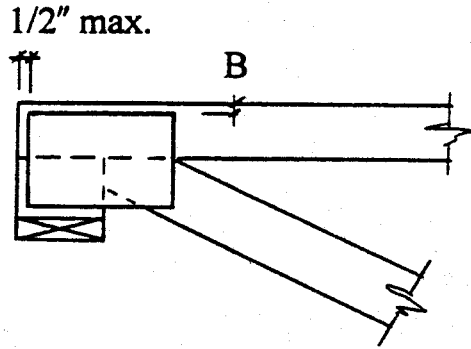
## TRUSS SUPPORT DETAILS

Design guidelines for wood trusses are published by the Truss Plate Institute of Canada and are referenced in CSA specification 086 for engineering design in wood. This CSA specification is in turn referenced by the National Building Code of Canada.

The TPIC guideline shows a number of typical joint details for top chord bearing trusses. Some of these details show the truss top chord extending over the support and bearing directly on the support. These details work well, providing a maximum horizontal dimension of  $1/2''$  can be maintained between the outer edge of the truss web and the inside edge of the support. However, many builders have difficulty in maintaining dimensions between supports that are sufficiently accurate to meet these tolerances. Also, their primary concern may be to avoid a fitting problem when installing the trusses and as a result they want these tolerances to be as large as possible.

Included in the typical top chord bearing details in the TPIC design guideline are some details showing vertical blocks installed between the underside of the top chord and the support that permit the connector plate to extend over the support. Although reasonable tolerances must still be maintained, they are not nearly as critical as the tolerances required when no vertical block is included. As a result, the Western Wood Truss Association, representing most of the truss manufacturers in Manitoba and Saskatchewan, recommends the use of these particular details for top chord bearing trusses. They are shown here along with maximum reactions for various top chord and diagonal web sizes.





The vertical dimension from the upper edge of the top chord to the top of the support will usually be in the range of 7 1/4" to 9 1/4" depending on the depth of the top chord and the width of the connector plate required.

Top Chord Size	Diagonal Web Size	Dimension B (ins.)	Max. Factored Reaction (lbs.)
2x4	2x4	1/2"	3804
	2x5	1/2"	4438
	2x6	1/2"	5072
2x5	2x4	1 1/2"	3883
	2x5	1 1/2"	4794
	2x6	1 1/2"	5706
2x6 or larger	2x4	2"	3962
	2x5	2"	5151
	2x6	2"	6340