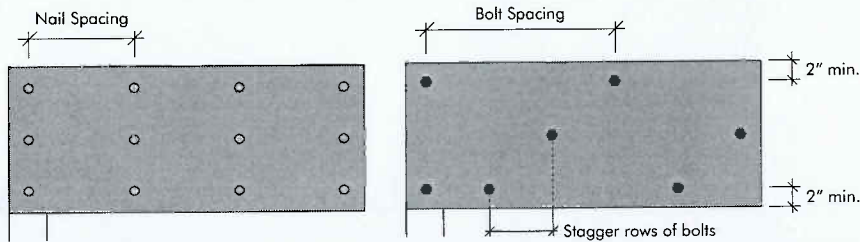
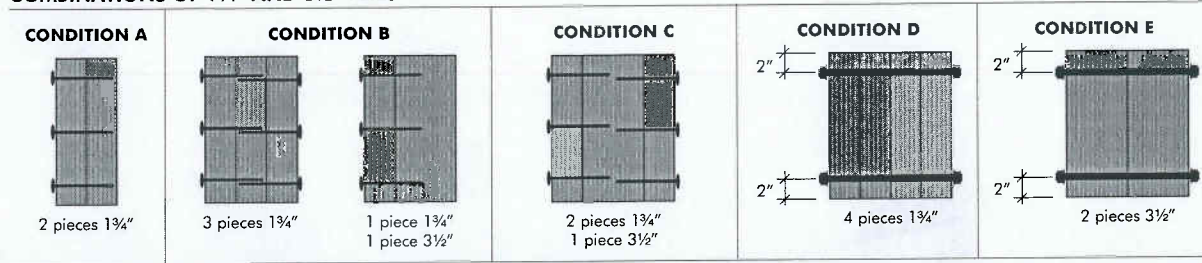


MULTIPLE-PLY CP-LAM BEAM ASSEMBLY



COMBINATIONS OF 1 3/4" AND 3 1/2" PLYS



MAXIMUM UNIFORM SIDE LOAD (PLF) 2.0E CP-LAM

Pieces in Member	3 1/2" x 0.131" Nails		16d Common Nails		1/2" Bolts		
	2 rows at 12" o.c.	3 rows at 12" o.c.	2 rows at 12" o.c.	3 rows at 12" o.c.	2 rows at 24" o.c.	2 rows at 12" o.c.	3 rows at 12" o.c.
Condition A (2 - 1 3/4")	390	585	505	760	510	1015	1520
Condition B (3 - 1 3/4")	290	435	380	570	380	760	1140
Condition C (2 - 1 3/4" + 1 - 3 1/2")	260	390	340	505	465	930	1395
Condition D (4 - 1 3/4")	use bolts for this condition				340	680	1015
Condition E (2 - 3 1/2")	use bolts for this condition				860	1720	2580

Notes:

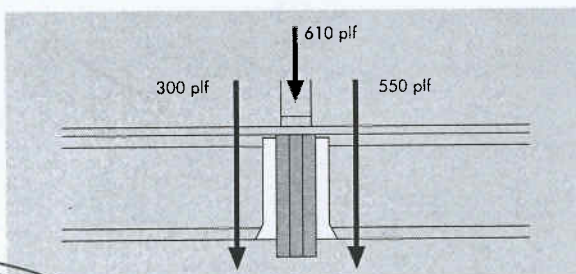
- Minimum fastener schedule for smaller side loads and top-loaded CP-LAM beams:
 Conditions A, B & C, beams 12" deep or less:
 2 rows 3 1/2" x 0.131" at 12" o.c.
 Conditions A, B & C, beams deeper than 12":
 3 rows 3 1/2" x 0.131" at 12" o.c.
 Conditions D & E, all beam depths:
 2 rows 1/2" bolts at 24" o.c.
- The table values for nails may be doubled for 6" o.c. and tripled for 4" o.c. nail spacings.
- The nail schedules shown apply to both sides of a three-ply CP-LAM beam.
- The table values apply to common bolts that conform to ANSI/ASME Standard B18.2.1-1981. A washer not less than a standard cut washer shall be between the wood and the bolt head and between the wood and the nut. The distance from the edge of the CP-LAM beam to the bolt holes must be at least 2" for 1/2" bolts. Bolt holes shall be the same diameter as the bolt.
- 7" wide CP-LAM beams must be loaded from both sides and/or top loaded.
- CP-LAM beams wider than 7" must be designed by the engineer of record.
- Load duration factors may be applied to the table values.

HOW TO USE THE MAXIMUM UNIFORM SIDE LOAD TABLE

EXAMPLE:

2.0E CP-LAM beam loaded from both sides and above THREE 1 3/4" PLYS (CONDITION B)

- Use allowable load tables or sizing software to size the CP-LAM beam to carry a total load of $(300 + 610 + 550) = 1460$ plf.
- Refer to the 2.0E CP-LAM table for beam assembly requirements. Refer to the Condition B row in the table. Scan across the Condition B row from left to right for a table value greater than 550 plf, which is the greatest side load carried by the beam. The fourth value in the row indicates that 3 rows of 16d common nails at 12" o.c. will accommodate a side load of 570 plf which is greater than the 550 plf required. Use 3 rows of 16d common nails at 12" o.c., from both sides, to assemble the beam.



3-9 1/2" 3/8"

C P - L A M M U L T I P L E - P L Y B E A M A S S E M B L Y