

MAXIMUM APPLIED PLF FOR MULTI-PLY GIRDER - D. FIR

B37019B

Capacity per nail (lb) :

3" (spiral) =	130.0	spiral =	3" common spiral nail (diameter = 0.122")
3" (c. wire) =	176.7	c. wire =	3" common wire nail (diameter = 0.144")



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2 - PLY SURFACE NAIL SPACING (IN)	Capacities in table are maximum factored applied loads in PLF (lb/ft)				Rows of nails allowed	
	1 ROW 3" spiral 3" c. wire	2 ROWS 3" spiral 3" c. wire	3 ROWS 3" spiral 3" c. wire	4 ROWS 3" spiral 3" c. wire	Lumber	Maximum
12	260	353	780	1040	2X3	1
10	312	424	936	1248	2X4 / 2X5	2
8	390	530	1170	1560	2X6	3
6	520	707	1560	2080	2X8	4
5	624	848	1872	2496	2X10	5
					2X12	6
3 - PLY						
SURFACE NAIL	1 ROW				5 ROWS	
SPACING (IN)	3" spiral 3" c. wire	3" spiral 3" c. wire	3" spiral 3" c. wire	3" spiral 3" c. wire	3" spiral 3" c. wire	
12	195	265	585	780	1325	1170
10	234	318	702	936	1590	1404
8	293	398	878	1170	1988	1755
6	390	530	1170	1560	2651	2340
5	468	N/A	1404	1872	N/A	2808
4-PLY *						
SURFACE NAIL	1 ROW				5 ROWS	
SPACING (IN)	3" spiral 3" c. wire	3" spiral 3" c. wire	3" spiral 3" c. wire	3" spiral 3" c. wire	3" spiral 3" c. wire	
12	173	236	520	693	1178	1040
10	208	283	624	832	1414	1248
8	260	353	780	1040	1767	1560
6	347	471	1040	1387	2356	2080
5	416	N/A	1248	1664	N/A	2496
5-PLY *						
SURFACE NAIL	1 ROW				5 ROWS	
SPACING (IN)	3" spiral 3" c. wire	3" spiral 3" c. wire	3" spiral 3" c. wire	3" spiral 3" c. wire	3" spiral 3" c. wire	
12	163	221	488	650	1104	975
10	195	265	585	780	1325	1170
8	244	331	731	975	1657	1463
6	325	442	975	1300	2209	1950
5	390	N/A	1170	1560	N/A	2340

NOTES: * For 4 & 5-ply trusses add one 1/2" diameter bolt + washers in each top and bottom chord panel

- 1) This table conforms to CSA O86-09, Section 10.9.
- 2) Values in table are based on DRY lumber at time of nail installation (<19% moisture content).
- 3) Bolts used in 4 and 5-ply trusses must conform to CSA O86-09, Section 10.4.1
- 4) Minimum hanger nail length is 1.5". For minimum edge, end, and spacing requirements see MITek Detail B37019C.
- 5) For 9 - 3/4 gauge 3.25" common wire gun nails (dia. = 0.120") use 3" spiral nail values.
- 6) Bolt holes drilled into 4 and 5-ply girders must not exceed 0.5625" (1/2" + 1/16").
- 7) Table values were determined using "Standard" load duration (K_D = 1.0).
- 8) This table is not valid after April 30, 2013.



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