## A107 Toe-Nailed Jack Connections

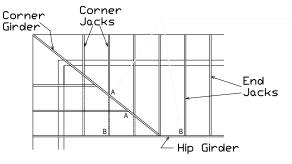


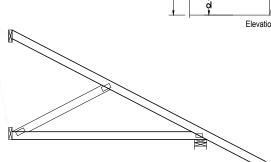
Markham, DN / Coquitlam, BC / Gatineau, QC

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	Min.	Nail S	pacing (in.)			Minimum		Lateral Nail Resistance (lbs)			
	SPF		D.Fir-L		No. of	Chord Sizes		Detail A		Detail B	
Nail Type	С	d	С	d	Nails	SPF	D.Fir-L	SPF	D.Fir-L	SPF	D.Fir-L
0.120"Øx3.25" Pneumatic	1	1/2	1-1/4	5/8	2	2x4	2×4	188	209	152	173
					3	2x4	2×6	282	313	229	259
					4	2x6	2x6	376	418	305	346
0.131"øx3.25" Pneumatic	1-1/8	5/8	1-3/8	3/4	2	2x4	2×4	221	246	174	197
					3	2x4	2x6	332	369	262	296
					4	2x6	2×6	442	492	349	395
0.122"Øx3.0" Common Spiral	1	1/2	1-1/4	5/8	2	2x4	2×4	192	215	152	172
					3	2x4	2x6	288	323	228	258
					4	2x6	2x6	385	431	304	344
0.152"Øx3.5" Common Spiral	1-1/4	5/8	1-5/8	7/8	2	2x4	2×4	283	322	225	254
					3	2x6	2x6	425	483	337	381
					4	2x6	-	566	-	450	-
0.144″øx3.0″ Common Wire	1-1/8	5/8	1-1/2	3/4	2	2x4	2×4	244	277	196	222
					3	2x4	2×6	366	416	294	333
					4	2x6	-	488	-	393	_
0.160″ø×3.5″ Common Wire	1-3/8	3/4	1-5/8	7/8	2	2x4	2×4	304	346	243	275
					3	2x6	2x6	456	519	365	412
					4	2x6	-	609	_	486	_

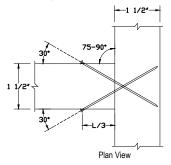
 $\underline{\text{Note:}}$  Lateral nail resistances above are the maximum factored vertical (downwards or upwards for uplift) end reaction capacites based on the following:

- 1. Capacities per CSA 086-09 (NBCC 2010) and CSA 086-14 (NBCC 2015).
- 2. All minimum No.1/No.2 grade, dry and untreated lumber, used in dry service conditions and normal term load duration factor.
- 4. All capacities are limited to toe-nailed jack members.
- 5. Capacities are limited to the size, length & number of nails shown, the connection geometry shown in Details A & B, the minimum nail spacing requirements shown in Details 1 & 2, the lumber species combination and the minimum lumber chord sizes shown.
- 6. Ensure minimum nail spacing as the number of nails shown may not be possible.
- 7. 50% of the above lateral nall resistances shall be used for all square cut jack ends that are not flush cut to the supporting girder member. Square cut jacks are limited to a maximum 0.131" nail diameter.
- 8. Hangers may be required for connections exceeding these capacities and limitations.

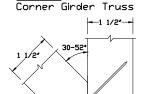




<u>Detail A.</u> End Jack to Hip Girder Truss



L = nail length

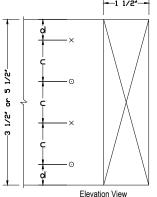


Detail B. Corner Jack to

<u>Detail 2.</u> Minimum Nail Spacing Requirements

1 1/2"-

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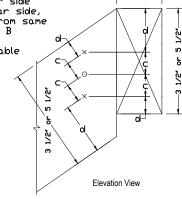


Detail 1. Minimum Nail

Spacing Requirements

= nail on far side
× = nail on near side,
except nails from same
side for Detail B

c & d = see table



CCMC #12182-L, 12802-L, 13124-L

WARRINGS TRUSSES DEQUIRE EXTENCE CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACKING, JOINTLY PRODUCED BY TELL TO AND SEA, AND AVAILABLE OF THE SEA OF T