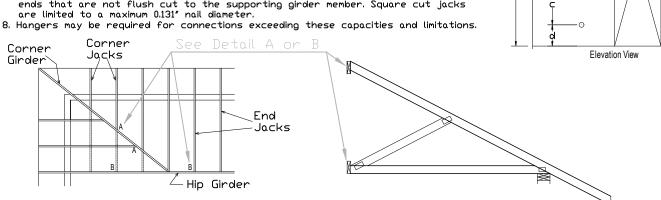
A107 Toe-Nailed Jack Connections



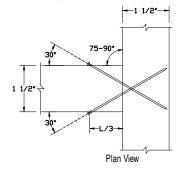
	Min. Nail Spacing (in.)					Minimum		Lateral Nail Resistance (lbs)			
	SPF		D.Fir-L		No. of	Chord Sizes		Detail A		Detail B	
Nail Type	С	d	С	d	Nails	SPF	D.Fir-L	SPF	D.Fir-L	SPF	D.Fir-L
0.120"Øx3.25" Pneumatic	1	1/2	1-1/4	5/8	2	2x4	2×4	188	209	152	173
					3	2x4	2×6	282	313	229	259
					4	2x6	2×6	376	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	2×6	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	2×6	288	323	228	258
					4	2x6	2×6	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	2×6	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	555
					3	2x4	2×6	366	416	294	333
					4	2x6	-	488	-	393	-
0.160"Øx3.5" Common Wire	1-3/8	3/4	1-5/8	7/8	2	2x4	2×4	304	346	243	275
					3	2x6	2×6	456	519	365	412
					4	2x6	_	609	-	486	_

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

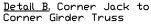
- 1. Capacities per CSA 086-09 (NBCC 2010) and CSA 086-14 (NBCC 2015).
- 2. All minimum No.1/No.2 grade, dry and untreated lumber, used in dry service conditions and normal term load duration factor.
- 4. All capacities are limited to toe-nailed jack members.
- 5. Capacities are limited to the size, 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 nail resistances shall be used for all square cut jack ends that are not flush cut to the supporting girder member. Square cut Jacks

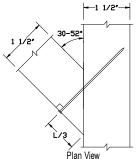


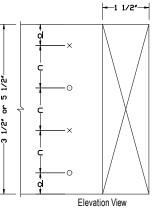
Detail A. End Jack to Hip Girder Truss



L = nail length



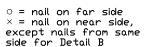




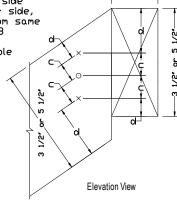
Detail 1. Minimum Nail

Spacing Requirements

Detail 2. Minimum Nail Spacing Requirements



c & d = see table



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