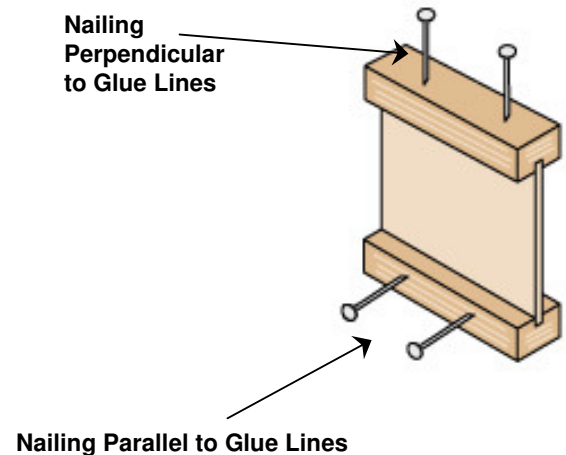




## Allowable Fastener Spacing & Design for BCI® Joists and VERSA-LAM®

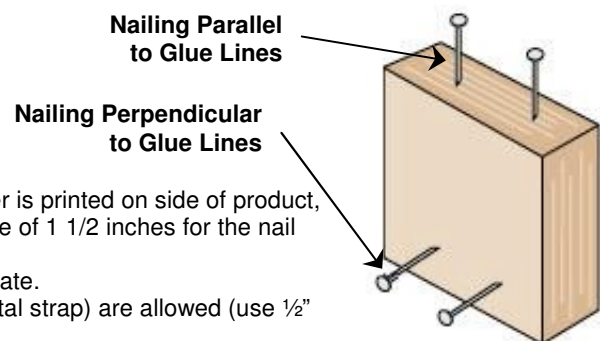
### BCI® Joists and Blocking Panels

Connector Size	Nails Parallel to Glue Lines (into the side of flange)		Nails Perpendicular to Glue Lines <sup>(3)</sup> (through top of flange)	
	On-Center (in)	End of Joist (in)	On-Center (in)	End of Joist (in)
8d Box	4	1.5	2	1.5
8d Common	4	3	2	1.5
10d & 12d Box	4	3	2	1.5
16d Box	4	3	2	1.5
10d & 12d Common	6	4	3	2
16d Sinker	6	4	3	2
16d Common	6	4	3	2



### VERSA-LAM®

Connector Size	Nails Perpendicular to Glue Lines		Nails Parallel to Glue Lines					
			VERSA-LAM <sup>(2)</sup> 1 5/16"		VERSA-LAM <sup>(2), (3)</sup> 1 3/4" & 2 5/8"		VERSA-LAM <sup>(2), (3)</sup> 3 1/2"	
	O.C.	End	O.C.	End	O.C.	End	O.C.	End
8d Box	2	0.5 <sup>(1)</sup>	3	1.5	2	1	2	0.5
8d Common	2	1 <sup>(1)</sup>	3	2	3	2	2	1
10d & 12d Box	2	1 <sup>(1)</sup>	3	2	3	2	2	1
16d Box	2	1 <sup>(1)</sup>	3	2	3	2	2	1
10d & 12d Common	2	2	4	3	4	3	2	2
16d Sinker	2	2	4	3	4	3	2	2
16d Common	2	2	6	4	6	3	2	2



**Notes:**

1. VERSA-LAM® produced from APA Mill Number 1089 (mill number is printed on side of product, adjacent to grade stamp) shall maintain a minimum edge distance of 1 1/2 inches for the nail sizes noted.
2. Offset and stagger nail rows from floor sheathing and wall sole plate.
3. For 1 3/4" thickness and greater, 2 rows of nails (such as for a metal strap) are allowed (use 1/2" minimum offset between rows and stagger nails).

### VERSA-LAM® Equivalent Specific Gravity for Connector Design:

All VERSA-LAM® 1.7 grade and higher product has an equivalent specific gravity (ESG) of 0.50 for fasteners in all orientations, except for the following:

- Nails - Withdrawal Parallel to Glue Lines
  - VERSA-LAM® produced from APA Mill Number 1089: ESG = 0.49
  - VERSA-LAM® produced from APA Mill Number 1047: ESG = 0.47
- Bolts - Lateral Parallel to Glue Lines: No ESG for VERSA-LAM® produced from APA Mill Numbers 1047 and 1089 (ESG = 0.5 for VERSA-LAM® produced from APA Mill Numbers 1106 and 1110)