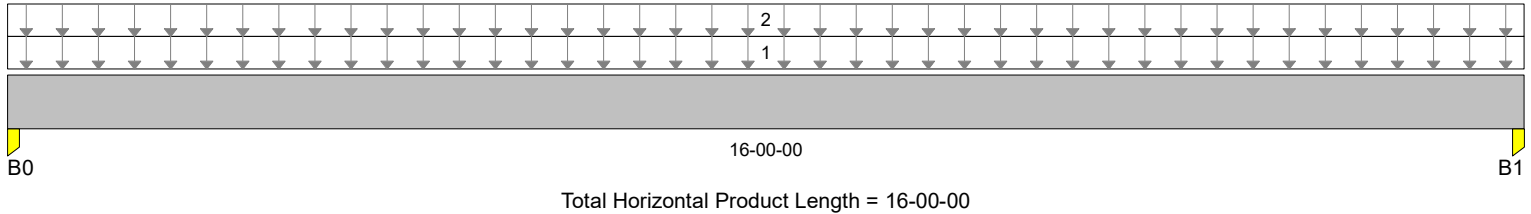


BC CALC® Design Report


 Build 4516  
 Job Name:  
 Address:  
 City, State, Zip: ,  
 Customer:  
 Code reports: ESR-1040

 File Name: BC CALC Project  
 Description: Designs\FB01  
 Specifier:  
 Designer:  
 Company:  
 Misc:

**Reaction Summary (Down / Uplift) ( lbs )**

Bearing	Live	Dead	Snow	Wind	Roof Live
B0, 3-1/2"	2,880 / 0	2,041 / 0			1,920 / 0
B1, 3-1/2"	2,880 / 0	2,041 / 0			1,920 / 0

**Load Summary**

Tag	Description	Load Type	Ref.	Start	End	100%	90%	115%	160%	125%	Trib.
1	2nd floor	Unf. Area (lb/ft <sup>2</sup> )	L	00-00-00	16-00-00	30	10				12-00-00
2	roof	Unf. Area (lb/ft <sup>2</sup> )	L	00-00-00	16-00-00		10		20		12-00-00

**Controls Summary**

	Value	% Allowable	Duration	Case	Location
Pos. Moment	18,574 ft-lbs	71.4%	100%	1	08-00-00
End Shear	4,165 lbs	37.1%	100%	1	01-02-12
Total Load Defl.	L/251 (0.743")	95.6%	n/a	3	08-00-00
Live Load Defl.	L/393 (0.474")	91.5%	n/a	6	08-00-00
Max Defl.	0.743"	74.3%	n/a	3	08-00-00
Span / Depth	16.6	n/a	n/a	0	00-00-00

**Bearing Supports**

	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0 Post	3-1/2" x 3-1/2"	5,641 lbs	n/a	61.4%	Unspecified
B1 Post	3-1/2" x 3-1/2"	5,641 lbs	n/a	61.4%	Unspecified

**Cautions**

Member is not fully supported at post B0. A connector is required at this bearing.  
 Member is not fully supported at post B1. A connector is required at this bearing.

**Notes**

Design meets Code minimum (L/240) Total load deflection criteria.  
 Design meets Code minimum (L/360) Live load deflection criteria.  
 Design meets arbitrary (1") Maximum total load deflection criteria.  
 Calculations assume Member is Fully Braced.  
 Design based on Dry Service Condition.  
 Deflections less than 1/8" were ignored in the results.

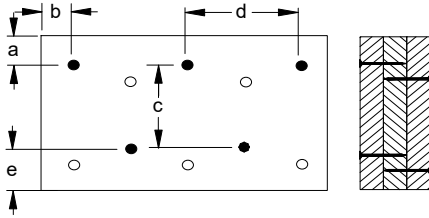
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### Connection Diagram



a minimum = 2"      c = 6-1/4"  
b minimum = 3"      d = 24"  
e minimum = 3"

Nailing schedule applies to both sides of the member.

Member has no side loads.

Connectors are: 16d Sinker Nails

### Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

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