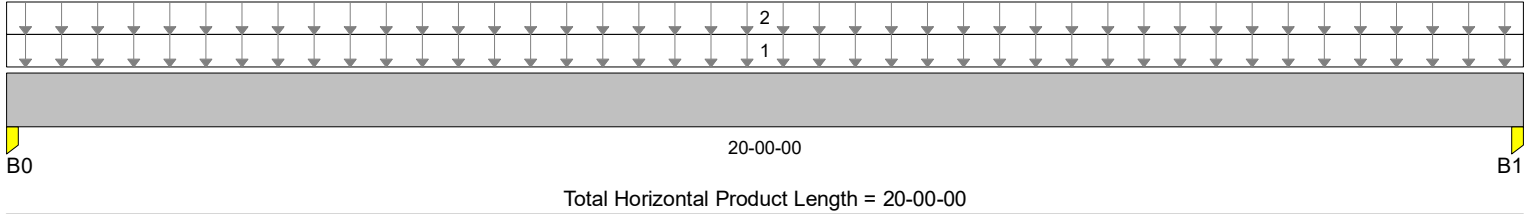


BC CALC® Design Report


 Build 6536
 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, 5-1/2"	1,200 / 0	2,652 / 0	2,400 / 0		
B1, 5-1/2"	1,200 / 0	2,652 / 0	2,400 / 0		

Load Summary

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

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	24,683 ft-lbs	47.7%	115%	3	10-00-00
End Shear	4,482 lbs	20.9%	115%	3	01-07-08
Total Load Defl.	L/383 (0.602")	62.7%	n/a	3	10-00-00
Live Load Defl.	L/758 (0.304")	47.5%	n/a	6	10-00-00
Max Defl.	0.602"	60.2%	n/a	3	10-00-00
Span / Depth	16.5	n/a	n/a	0	00-00-00

Bearing Supports

	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0 Post	5-1/2" x 5-1/2"	5,352 lbs	n/a	23.6%	Unspecified
B1 Post	5-1/2" x 5-1/2"	5,352 lbs	n/a	23.6%	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.
 BC CALC® analysis is based on IBC 2009.
 Design based on Dry Service Condition.

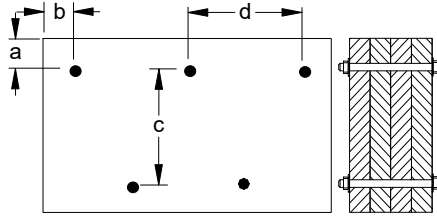
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Connection Diagram



a minimum = 2" c = 10"
 b minimum = 2-1/2" d = 24"

Beams 7 inches wide will be assumed to be either top-loaded only, or equally loaded from each side.

Bolts are assumed to be Grade A307 or Grade 2 or higher.

Member has no side loads.

Connectors are: 1/2 in. Staggered Through Bolt

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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