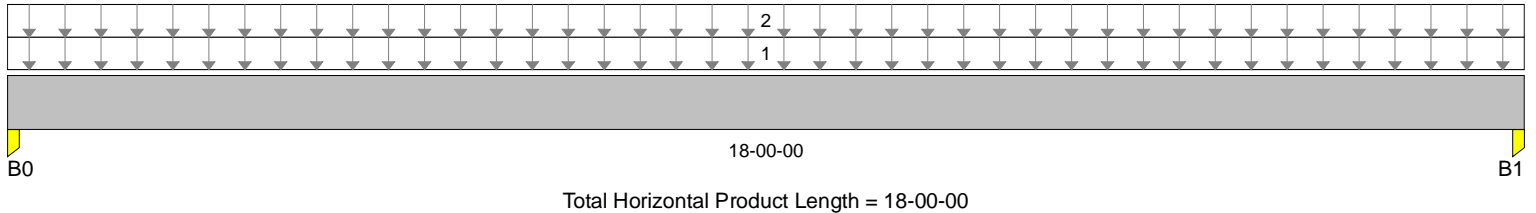


Dry | 1 span | No cantilevers | 0/12 slope

January 29, 2016 09:16:19

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, 5-1/2"	1,260 / 0	2,714 / 0	6,300 / 0		
B1, 5-1/2"	1,260 / 0	2,714 / 0	6,300 / 0		

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	100%	90%	100%	160%	125%	Trib.
1	Roof	Unf. Area (lb/ft^2)	L	00-00-00	18-00-00		10	50			14-00-00
2	Attic	Unf. Area (lb/ft^2)	L	00-00-00	18-00-00	10	10				14-00-00

### Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	37,074 ft-lbs	66.1%	100%	2	09-00-00
End Shear	7,220 lbs	45.2%	100%	2	01-09-08
Total Load Defl.	L/375 (0.551")	64.1%	n/a	2	09-00-00
Live Load Defl.	L/536 (0.385")	67.2%	n/a	5	09-00-00
Max Defl.	0.551"	55.1%	n/a	2	09-00-00
Span / Depth	12.9	n/a	n/a	0	00-00-00

### 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.

### Bearing Supports

	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0 Post	5-1/2" x 5-1/4"	9,014 lbs	n/a	41.6%	Unspecified
B1 Post	5-1/2" x 5-1/4"	9,014 lbs	n/a	41.6%	Unspecified

### 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.

BC CALC®, BC FRAMER®, AJST™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, SIMPLE FRAMING SYSTEM®, VERSA-LAM®, VERSA-RIM PLUS®, VERSA-RIM®, VERSA-STRAND®, VERSA-STUD® are trademarks of Boise Cascade Wood Products L.L.C.