

D1 (Floor Beam)

Dry | 4 spans | No cant.

BC CALC® Member Report

Build 6578

Job name:

Address:

City, State, Zip:AZ, 85706

Builder:

Code reports:PR-L313

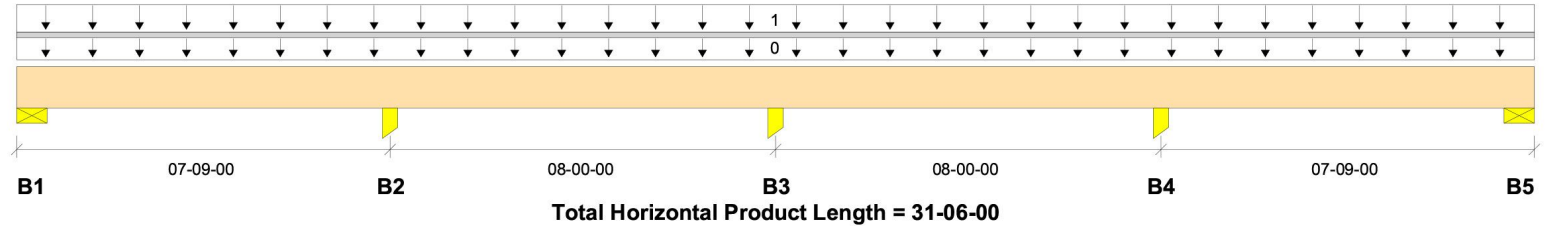
File name:

Description:

Specifier:

Designer:Steven DAntonio

Company:



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 5-1/2"	2976 / 383	1002 / 0			
B2, 7-1/2"	7450 / 0	2676 / 0			
B3, 7-1/2"	7281 / 0	2382 / 0			
B4, 7-1/2"	7450 / 0	2676 / 0			
B5, 5-1/2"	2976 / 383	1002 / 0			

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live	Dead	Snow	Wind	Roof Live	Tributary
							100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	31-06-00	Top		9				00-00-00
1	Standard Load	Unf. Area (lb/ft²)	L	00-00-00	31-06-00	Top	40	15				20-00-00

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	5645 ft-lbs	37.6 %	100%	3	27-11-05
Neg. Moment	-7496 ft-lbs	50.0 %	100%	4	07-09-00
End Shear	2360 lbs	35.6 %	100%	2	01-05-08
Cont. Shear	3642 lbs	55.0 %	100%	6	25-00-12
Total Load Deflection	L/999 (0.062")	n\	n\	3	27-07-09
Live Load Deflection	L/999 (0.05")	n\	n\	9	27-06-10
Total Neg. Defl.	L/999 (-0.029")	n\	n\	3	19-10-00
Max Defl.	0.062"	n\	n\	3	27-07-09
Span / Depth	8.0				

Bearing Supports

B1	Wall/Plate	5-1/2" x 3-1/8"	3978 lbs	n\	35.6 %	Unspecified
B2	Column	7-1/2" x 3-1/8"	10126 lbs	n\	66.5 %	Unspecified
B3	Column	7-1/2" x 3-1/8"	9663 lbs	n\	63.4 %	Unspecified
B4	Column	7-1/2" x 3-1/8"	10126 lbs	n\	66.5 %	Unspecified
B5	Wall/Plate	5-1/2" x 3-1/8"	3978 lbs	n\	35.6 %	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.  
BC CALC® analysis is based on IBC 2012.  
Design based on Dry Service Condition.

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA).  
Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is 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.

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

