

### Single 3-1/8" x 12" BOISE GLULAM® 24F-V8/DF

## **PASSED**

D1 (Floor Beam)

Dry | 4 spans | No cant.

**BC CALC® Member Report** 

**Build 6578** 

Job name:

Address:

City, State, Zip:

Builder:

AZ, 85706

Code reports: PR-L313

File name:

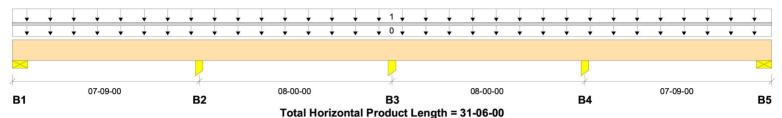
Description: Specifier:

Designer:

Steven DAntonio

Wind

Company:



Snow

#### Reaction Summary (Down / Uplift) (lbs) Bearing 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							Live	Deau	Snow	wind	Live	iributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	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\a	n\a	3	27-07-09
Live Load Deflection	L/999 (0.05")	n\a	n\a	9	27-06-10
Total Neg. Defl.	L/999 (-0.029")	n\a	n\a	3	19-10-00
Max Defl.	0.062"	n\a	n\a	3	27-07-09
Span / Depth	8.0				

				% Allow	% Allow	
Bearing	Supports	Dim. (LxW)	Value	Support	Member	Material
B1	Wall/Plate	5-1/2" x 3-1/8"	3978 lbs	n\a	35.6 %	Unspecified
B2	Column	7-1/2" x 3-1/8"	10126 lbs	n\a	66.5 %	Unspecified
B3	Column	7-1/2" x 3-1/8"	9663 lbs	n\a	63.4 %	Unspecified
B4	Column	7-1/2" x 3-1/8"	10126 lbs	n\a	66.5 %	Unspecified
B5	Wall/Plate	5-1/2" x 3-1/8"	3978 lbs	n\a	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**

**Roof Live** 

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®,



## Single 11-7/8" BCI® 5000-1.7 DF

D2 (Joist)

**BC CALC® Member Report** 

Job name: Address:

**Build 6578** 

Builder:

City, State, Zip:

AZ, 85706

Code reports: ESR-1336

ontrole Summary

Dry | 2 spans | No cant. | 16 OCS | Repetitive | Glued & nailed

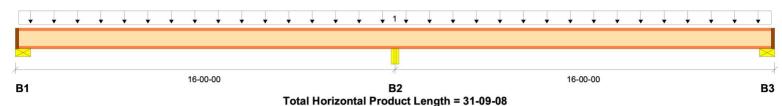
File name: Description:

Specifier:

Designer: Steven DAntonio

Wind

Company:



# Snow

### Reaction Summary (Down / Uplift) (lbs) Bearing

B1, 4-1/4"	381 / 50	124 / 0
B2, 3-1/8"	1033 / 0	387 / 0
B3, 4-1/4"	381 / 50	124 / 0

Load Summary					Live	Dead	Snow	Wind	Roof Live	ocs		
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
1	Standard Load	Unf. Area (lb/ft²)	L	00-00-00	31-09-08	Тор	40	15				16

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	1599 ft-lbs	50.8 %	100%	2	06-10-14
Neg. Moment	-2154 ft-lbs	68.4 %	100%	1	15-10-12
End Reaction	506 lbs	35.5 %	100%	2	00-00-00
Int. Reaction	1420 lbs	64.8 %	100%	1	15-10-12
End Shear	480 lbs	29.5 %	100%	2	00-04-04
Cont. Shear	701 lbs	43.1 %	100%	1	15-09-03
Total Load Deflection	L/861 (0.217")	27.9 %	n\a	3	24-01-13
Live Load Deflection	L/1074 (0.174")	44.7 %	n\a	6	24-00-09
Total Neg. Defl.	L/999 (-0.03")	n\a	n\a	3	11-10-01
Max Defl.	0.217"	21.7 %	n\a	3	24-01-13
Span / Depth	15.8				

	_			% Allow	% Allow	
Bearing	g Supports	Dim. (LxW)	Value	Support	Member	Material
B1	Wall/Plate	4-1/4" x 2"	506 lbs	n\a	35.5 %	Unspecified
B2	Beam	3-1/8" x 2"	1420 lbs	n\a	64.8 %	Unspecified
B3	Wall/Plate	4-1/4" x 2"	506 lbs	n\a	35.5 %	Unspecified

### **BC FloorValue® Summary**

BC FloorValue®: Subfloor: 3/4" OSB, Glue + Nail

Standard Enhanced Premium Subfloor Rating: Premium

Controlling Location: 08-01-02

### **Notes**

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets User specified (L/480) 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.

Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

### **Disclosure**

**Roof Live** 

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.

**PASSED** 

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