



Single 11-7/8" BCI® 5000s-1.8

PASSED

J01 (Joist)

BC CALC® Member Report

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

November 23, 2020 09:28:53

Build 7883

Job name: Walker Custom Homes

File name: Walker BC CALC Project

Address: 504 Main St.

Description:

City, State, Zip: Lee's Summit, MO

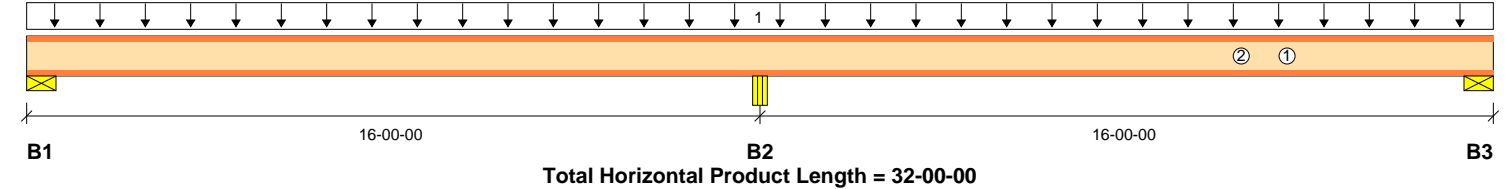
Specifier: Keith Talley

Customer: McCray Lumber

Designer:

Code reports: ESR-1336

Company: McCray Lumber



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 3-1/2"	382 / 51	83 / 0			
B2, 3-1/2"	1044 / 0	261 / 0			
B3, 3-1/2"	382 / 51	83 / 0			

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	Roof Live 125%	OCS
1	Standard Load	Unf. Area (lb/ft²)	L	00-00-00	32-00-00	Top	40	10				16

Hole Summary

Description	Center	Elevation	Ref.	Height	Width	Shape	Orientation
H01 - Prescriptive Water Line Hole	04-06-00	10"	R	1"		Circular	Horizontal
H02 - Prescriptive Water Line Hole	05-06-00	10"	R	1"		Circular	Horizontal

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	1517 ft-lbs	43.5%	100%	2	07-00-02
Neg. Moment	-1995 ft-lbs	57.2%	100%	1	16-00-00
End Reaction	465 lbs	32.6%	100%	2	00-00-00
Int. Reaction	1304 lbs	58.0%	100%	1	16-00-00
End Shear	446 lbs	27.4%	100%	2	00-03-08
Cont. Shear	642 lbs	39.5%	100%	1	15-10-04
Total Load Deflection	L/964 (0.196")	24.9%	n/a	3	24-04-03
Live Load Deflection	L/1124 (0.168")	42.7%	n/a	6	24-04-03
Total Neg. Defl.	L/999 (-0.037")	n/a	n/a	2	20-11-08
Max Defl.	0.196"	19.6%	n/a	2	07-07-13
Span / Depth	15.9				
Hole Location	Valid				

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 3-1/2" x 2"	465 lbs	15.6%	32.6%	Spruce-Pine-Fir
B2	Beam 3-1/2" x 2"	1304 lbs	n/a	58.0%	Unspecified
B3	Wall/Plate 3-1/2" x 2"	465 lbs	15.6%	32.6%	Spruce-Pine-Fir

BC FloorValue® Summary

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

Subfloor Rating: Premium

Controlling Location: 08-01-06

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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.

BC CALC® analysis is based on IBC 2009.

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

Design based on Dry Service Condition.

Calculations assume member is fully braced.

User Notes

This certification is for a Boise Cascade individual building component only and not for the building system as a whole. The component design as shown on this report is based upon loadings and dimensions provided by others. Building designer is responsible for determining that the dimensions and loads for each component match those required by the plans and by the actual end use of the component. Verification of framing methods, bracing design, support conditions, connection, etc. is the responsibility of the building designer.

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®, AJST™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,