Single 11-7/8" BCI® 5000s-1.8

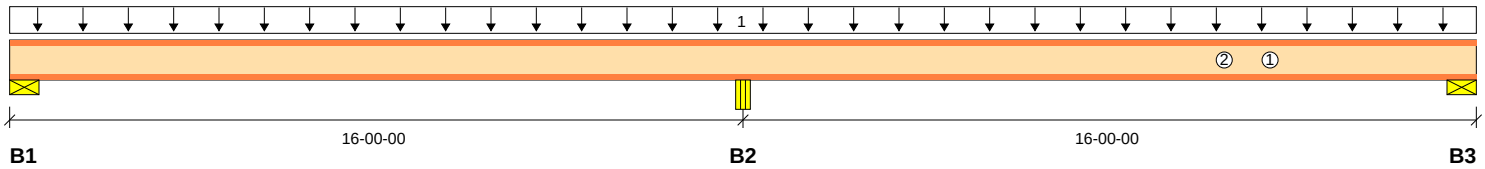
PASSED

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



Total Horizontal Product Length = 32-00-00

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.	Live 100%	Dead 90%	Snow 115%	Wind 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

Boise Cascade® ENGINEERED WOOD PRODUCTS

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Code reports:	ESR-1336	Company:	McCray Lumber

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