

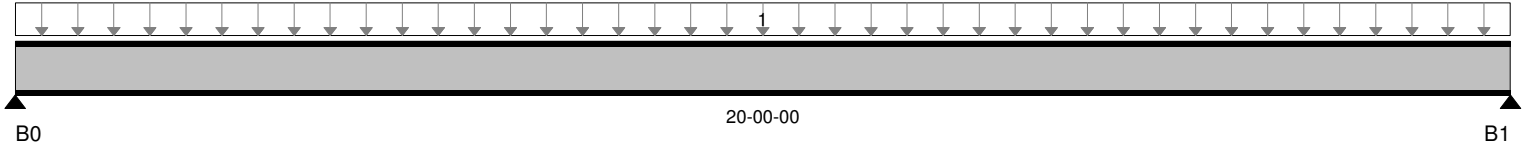
BC CALC® Design Report 

Dry | 1 span | No cantilevers | 0/12 slope
16 OCS | Non-Repetitive | Glued & nailed construction

Monday, April 27, 2015

Build 3272
Job Name: Portland Remodel
Address: 75 Bay View
City, State, Zip: Portland, ME
Customer: Eldredge Lumber
Code reports: ESR-1144

File Name: BC CALC Project
Description: Designs\J01
Specifier:
Designer:
Company:
Misc:



Total of Horizontal Design Spans = 20-00-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B0	533 / 0	133 / 0			
B1	533 / 0	133 / 0			

Load Summary

Tag	Description	Load Type	Ref.	Start	End	100%	90%	115%	160%	125%	OCS
1	Standard Load	Unf. Area (lb/ft ²)	L	00-00-00	20-00-00	40	10				16

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	3,333 ft-lbs	47.9%	100%	1	10-00-00
End Reaction	667 lbs	67.5%	100%	1	00-00-00
End Shear	662 lbs	44.4%	100%	1	00-00-14
Total Load Defl.	L/565 (0.425")	42.5%	n/a	1	10-00-00
Live Load Defl.	L/707 (0.34")	67.9%	n/a	2	10-00-00
Max Defl.	0.425"	42.5%	n/a	1	10-00-00
Span / Depth	20.2	n/a	n/a	0	00-00-00

Vibration Summary

Subfloor: 23/32" OSB, Glue + Nail
Strapping: None

Gypsum Ceiling: 5/8"
Bracing: None

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.
Minimum bearing length for B0 is 1-1/2".
Minimum bearing length for B1 is 1-1/2".
Entered/Displayed Horizontal Span Length(s) = Clear Span + 1/2 min. end bearing + 1/2 intermediate bearing
Calculations assume Member is Fully Braced.
Composite EI value based on 23/32" thick OSB sheathing glued and nailed to member.
Design based on Dry Service Condition.
Deflections less than 1/8" were ignored in the results.

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 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™, SIMPLE FRAMING SYSTEM®, VERSA-LAM®, VERSA-RIM PLUS®, VERSA-RIM®, VERSA-STRAND®, VERSA-STUD® are trademarks of Boise Cascade Wood Products L.L.C.