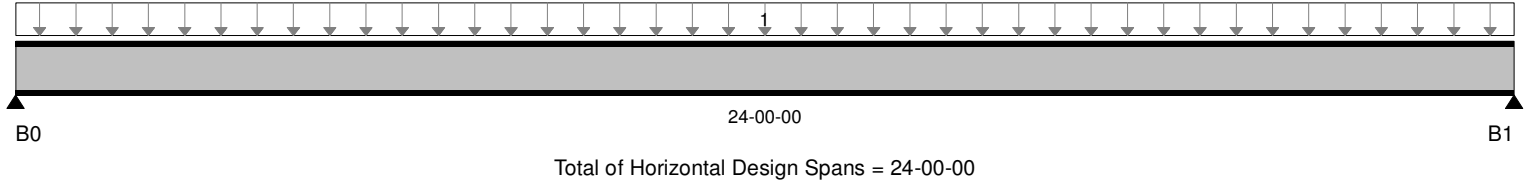


BC CALC® Design Report


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

May 7, 2018 12:28:20

 Build 6536  
 Job Name: Reynolds Project  
 Address: 32 Mass Ave  
 City, State, Zip: Portland, ME  
 Customer: Eldredge Lumber  
 Code reports: ESR-1144

 File Name: Reynolds Project  
 Description: Second Floor Joist  
 Specifier:  
 Designer:  
 Company:  
 Misc:


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

Bearing	Live	Dead	Snow	Wind	Roof Live	
B0	640 / 0	160 / 0				
B1	640 / 0	160 / 0				

	Live	Dead	Snow	Wind	Roof Live	OCS
1 Standard Load	40	10	115%	160%	125%	16

### Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	4,800 ft-lbs	57.3%	100%	1	12-00-00
End Reaction	800 lbs	80.3%	100%	1	00-00-00
End Shear	795 lbs	44.4%	100%	1	00-00-14
Total Load Defl.	L/483 (0.596")	49.7%	n/a	1	12-00-00
Live Load Defl.	L/604 (0.477")	79.5%	n/a	2	12-00-00
Max Defl.	0.596"	n/a	n/a	1	12-00-00
Span / Depth	20.6	n/a	n/a	0	00-00-00

### Notes

Entered/Displayed Horizontal Span Length(s) = Clear Span + 1/2 min. end bearing + 1/2 intermediate bearing

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

Design meets User specified (L/480) Live load deflection criteria.

Minimum bearing length for B0 is 1-1/2".

Minimum bearing length for B1 is 1-1/2".

Calculations assume member is fully braced.

BC CALC® analysis is based on IBC 2009.

Composite EI value based on 23/32" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

### 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 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.

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