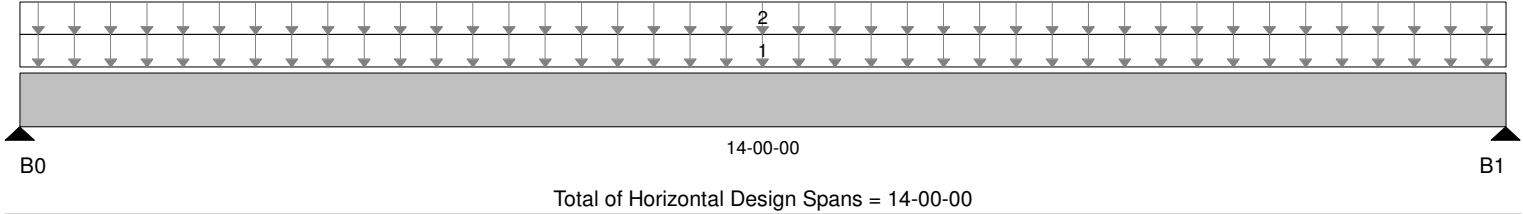


BC CALC® Design Report 

 Build 6080  
 Job Name: Ft Hill Colonial  
 Address:  
 City, State, Zip: Portland, ME  
 Customer: Eldredge Lumber  
 Code reports: ESR-1040

 File Name: BC CALC Project  
 Description: Beam Over Living  
 Specifier:  
 Designer:  
 Company:  
 Misc:


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

Bearing	Live	Dead	Snow	Wind	Roof Live
B0	5,460 / 0	1,969 / 0			
B1	5,460 / 0	1,969 / 0			

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	100%	90%	115%	160%	125%	Trib.
1	Standard Load	Unf. Area (lb/ft <sup>2</sup> )	L	00-00-00	14-00-00	40	10				13-00-00
2	Standard Load	Unf. Area (lb/ft <sup>2</sup> )	L	00-00-00	14-00-00	20	10				13-00-00

### Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	25,386 ft-lbs	58.3%	100%	1	07-00-00
End Shear	6,036 lbs	43.2%	100%	1	01-03-12
Total Load Defl.	L/456 (0.364")	52.7%	n/a	1	07-00-00
Live Load Defl.	L/620 (0.268")	58%	n/a	2	07-00-00
Max Defl.	0.364"	36.4%	n/a	1	07-00-00
Span / Depth	11.9	n/a	n/a	0	00-00-00
Squash Blocks	Valid				

### 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 Code minimum (L/360) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

Minimum bearing length for B0 is 1-7/8".

Minimum bearing length for B1 is 1-7/8".

Calculations assume member is fully braced.

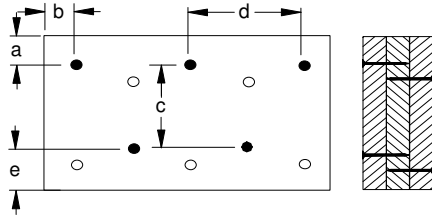
Design based on Dry Service Condition.

BC CALC® Design Report 

Build 6080  
Job Name: Ft Hill Colonial  
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City, State, Zip: Portland, ME  
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Misc:

### Connection Diagram



a minimum = 2"    c = 9"  
b minimum = 3"    d = 24"  
e minimum = 3"

Nailing schedule applies to both sides of the member.

Member has no side loads.

Connectors are: 16d Sinker Nails

### 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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