

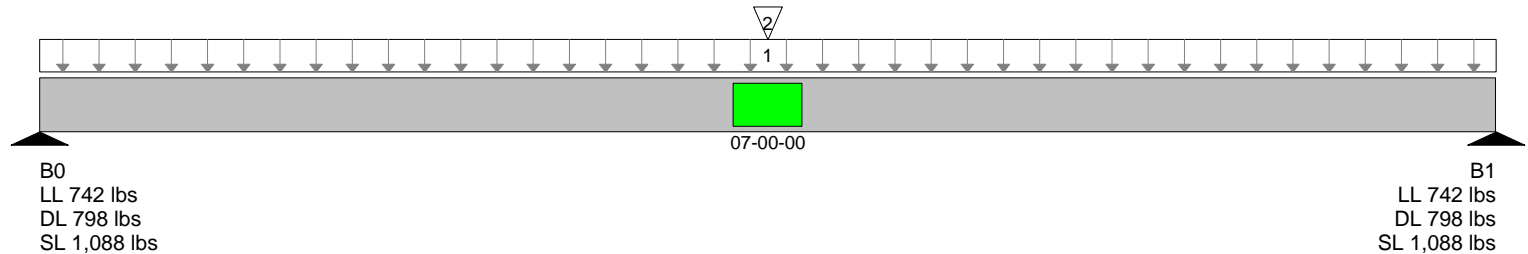
BC CALC® 3.0 Design Report - US
Build 517

1 span | No cantilevers | 0/12 slope

Friday, January 20, 2012

Job Name:
Address: 420 Third Street
City, State, Zip: E Northport, NY
Customer:
Code reports: ESR-1040

File Name: Calcs-FP
Description: FB02
Specifier:
Designer:
Company:
Misc:



Total of Horizontal Design Spans = 07-00-00

						Live	Dead	Snow	Wind	Roof Live	Trib.
Load Summary						100%	90%	115%	133%	125%	
Tag	Description	Load Type	Ref.	Start	End						
1	2nd floor	Unf. Area (psf)	L	00-00-00	07-00-00	40	10				04-00-00
2	FB01	Conc. Pt. (lbs)	L	03-06-00	03-06-00	363	1,243	2,175			n/a

Controls Summary	Value	% Allowable	Duration	Case	Span
Pos. Moment	7,885 ft-lbs	40.7%	115%	2	1 - Internal
End Shear	2,427 lbs	30.2%	115%	2	1 - Left
Total Load Defl.	L/977 (0.086")	24.6%		2	1
Live Load Defl.	L/1,419 (0.059")	25.4%		2	1
Max Defl.	0.086"	8.6%		2	1
Span / Depth	8.0	n/a			1

Notes

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 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

* **Cut from: 1-3/4" x 11-1/4" VERSA-LAM® 2.0 3100 SP**

User Notes

Top side of member shall be laterally braced by floor sheathing or perpendicular framing members at 24" oc max.
Member is not designed to support masonry veneer.

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. The building designer of record 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, connections, etc. is the responsibility of the building designer of record.

Disclosure

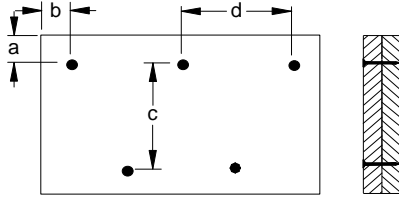
Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of BOISE engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

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Connection Diagram



a minimum = 2" c = 6-1/2"
b minimum = 3" d = 24"

Calculated Side Load = 100.0 plf

Connection design assumes point load is 'top-loaded'. For connection design of 'side-loaded' point loads, please consult a technical representative or professional of Record. Concentrated loads are not considered in side load analysis.
Connectors are: 16d Box Nails

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