



BC CALC® Member Report

FB01 (Drop Beam)

Dry | 1 span | No cant.

April 29, 2022 21:34:30

Build 8410

Job name:

File name:

Address:

Description:

City, State, Zip:

Specifier:

Customer:

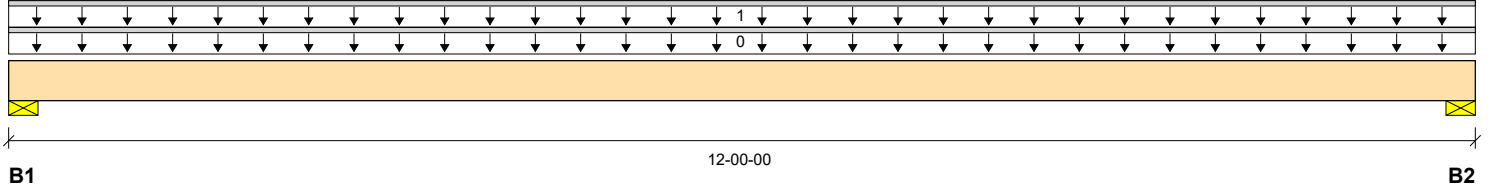
Designer:

Garret Freeman

Code reports: ESR-1040

Company:

Independent Consultant


B1 12-00-00 **B2**
 Total Horizontal Product Length = 12-00-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 3-1/2"	3000 / 0	1272 / 0			
B2, 3-1/2"	3000 / 0	1272 / 0			

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	Roof Live	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	12-00-00	Top		12				00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	12-00-00	Top	500	200				n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	11856 ft-lbs	68.6%	100%	1	06-00-00
End Shear	3360 lbs	42.5%	100%	1	01-03-06
Total Load Deflection	L/385 (0.36")	62.4%	n/a	1	06-00-00
Live Load Deflection	L/548 (0.253")	65.7%	n/a	2	06-00-00
Max Defl.	0.36"	36.0%	n/a	1	06-00-00
Span / Depth	11.7				

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 3-1/2" x 3-1/2"	4272 lbs	n/a	46.5%	Unspecified
B2	Wall/Plate 3-1/2" x 3-1/2"	4272 lbs	n/a	46.5%	Unspecified

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 Total load deflection criteria.
- Design based on Dry Service Condition.
- BC CALC® analysis is based on IBC 2009.
- Calculations assume member is braced at ends. See engineering report for the unbraced length.

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is 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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