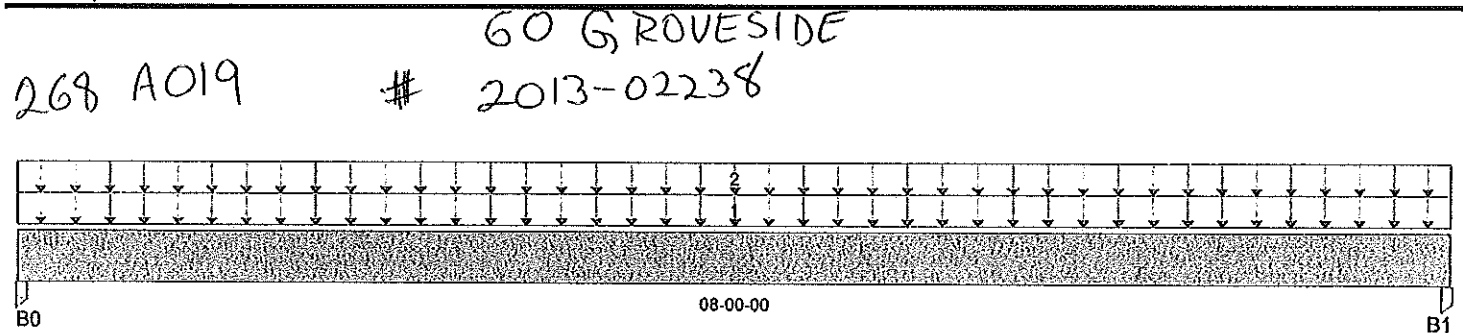


BC CALC® Design Report - US

Build 2565
 Job Name: ANNE PATNAUDE
 Address:
 City, State, Zip: ,
 Customer:
 Code reports: ESR-1040

File Name: BC CALC Project
 Description: Designs\FB01
 Specifier:
 Designer:
 Company:
 Misc:



Total Horizontal Product Length = 08-00-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B0, 4-1/2"		1,169 / 0	3,120 / 0		
B1, 4-1/2"		1,169 / 0	3,120 / 0		

Load Summary

Tag	Description	Load Type	Ref.	Start	End	100%	90%	115%	160%	125%	Trib.
1		Unf. Area (lb/ft ²)	L	00-00-00	08-00-00	0	15				06-00-00
2		Unf. Area (lb/ft ²)	L	00-00-00	08-00-00		15	60			13-00-00

Controls Summary

	Value	% Allowable	Duration	Case	Location	Disclosure
Pos. Moment	7,291 ft-lbs	75.7%	115%	1	04-00-00	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.
End Shear	3,239 lbs	58.4%	115%	1	00-11-12	
Total Load Defl.	L/276 (0.321")	87.1%	n/a	1	04-00-00	
Live Load Defl.	L/379 (0.234")	95%	n/a	2	04-00-00	
Max Defl.	0.321"	32.1%	n/a	1	04-00-00	
Span / Depth	12.2	n/a	n/a	0	00-00-00	

Bearing Supports

	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0 Post	4-1/2" x 3-1/2"	4,289 lbs	37.6%	36.3%	Spruce Pine Fir
B1 Post	4-1/2" x 3-1/2"	4,289 lbs	37.6%	36.3%	Spruce Pine Fir

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.
 Calculations assume Member is Fully Braced.
 Design based on Dry Service Condition.
 Deflections less than 1/8" were ignored in the results.

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.

User Notes

This design is provided as a courtesy to the builder and does NOT guarantee a complete structural review of this project. Neither lateral nor seismic analysis has been considered. All bearing conditions, connections, spans, o.c. spacing, loading and product usages shall be verified by the builder and engineer of record. This design shall be reviewed, verified and approved by the builder, project engineer and local building department prior to ordering materials.

Header over slider

BC CALC® Design Report - US

Build 2565

Job Name: ANNE PATNAUDE

Address:

City, State, Zip: ,

Customer:

Code reports: ESR-1040

File Name: BC CALC Project

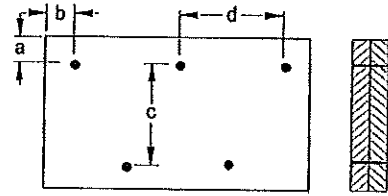
Description: Designs\FB01

Specifier:

Designer:

Company:

Misc:

Connection Diagram

a minimum = 2" c = 3-1/4"
b minimum = 3" d = 24"

Member has no side loads.

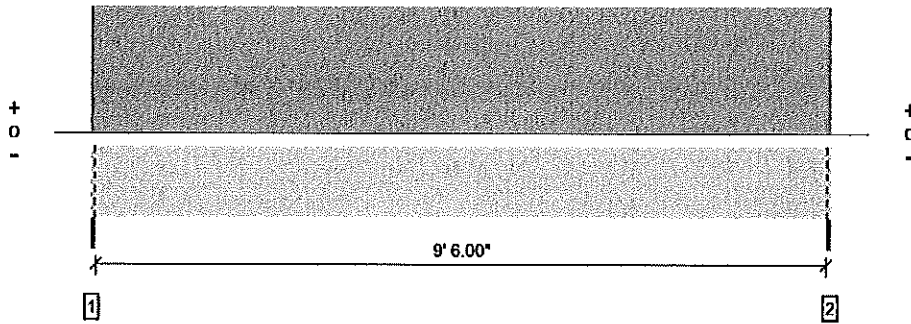
Connectors are: 16d Sinker Nails

Disclosure

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Overall Length: 9' 9.00"



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	2092 @ 0	2126 (1.50")	Passed (98%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	1699 @ 11.00"	6318	Passed (27%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	5100 @ 4' 10.50"	11775	Passed (43%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.113 @ 4' 10.50"	0.244	Passed (L/999+)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.202 @ 4' 10.50"	0.488	Passed (L/578)	--	1.0 D + 1.0 L (All Spans)

System : Floor
 Member Type : Flush Beam
 Building Use : Residential
 Building Code : IBC
 Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 9' 9.00" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Stud wall - HF	1.50"	1.50"	1.50"	922	1170	2092	Blocking
2 - Stud wall - HF	1.50"	1.50"	1.50"	922	1170	2092	Blocking

- Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Loads	Location	Tributary Width	Dead (0.90)	Floor Live (1.00)	Comments
1 - Uniform (PSF)	0 to 9' 9.00"	12' 0.00"	15.0	20.0	Attic Load

Weyerhaeuser Notes

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The product application, input design loads, dimensions and support information have been provided by Forte Software Operator



*Hammond Kitchen Living room
 Header*

Forto Software Operator	Job Notes
Guy Poisson Hammond Lumber (207) 495-3303 gpoisson@hammondlumber.com	