

# Triple 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP

### Floor Beam\FB04

Dry | 1 span | No cantilevers | 0/12 slope

February 19, 2017 16:56:03

BC CALC® Design Report

**Build 5684** Job Name:

127 BRAMBLEWOOD

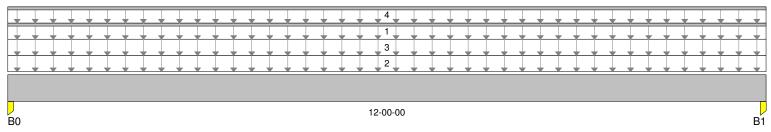
Address: City, State, Zip:,

Customer: **ROB TWOMBLY** Code reports: ESR-1040

File Name: BC CALC Project Description: GAR CEILING LVL

Specifier: Designer:

Company: Misc:



Total Horizontal Product Length = 12-00-00

Reaction Summary (Down / Uplift) (Ibs)							
Bearing	Live	Dead	Snow	Wind	Roof Live		
B0, 3-1/2"	1,080 / 0	1,917 / 0					
B1, 3-1/2"	1,080 / 0	1,917 / 0					

				Live	Dead	Snow Wind Roof Live	irib.
Lo	ad Summary						
Tag	g Description	Load Type	Ref. Start	End 100°	% 90%	115% 160% 125%	
1	WALL LOAD	Unf. Lin. (lb/ft)	L 00-00-00	12-00-00 <b>0</b>	100		n/a
2	GAR CEILING	Unf. Area (lb/ft^2)	L 00-00-00	12-00-00 <b>0</b>	15		03-00-00
3	GAR ROOF	Unf. Area (lb/ft^2)	L 00-00-00	12-00-00 <b>60</b>	20		03-00-00
4	G/E ROOF	Unf. Lin. (lb/ft)	L 00-00-00	12-00-00 <b>0</b>	100		n/a

<b>Controls Summary</b>	Value	% Allowab	le Duration	Case	Location
Pos. Moment	8,316 ft-lbs	39.7%	100%	1	06-00-0
End Shear	2,456 lbs	25.9%	100%	1	01-01-00
Total Load Defl.	L/521 (0.266")	46.1%	n/a	1	06-00-00
Live Load Defl.	L/999 (0.096")	n/a	n/a	2	06-00-00
Max Defl.	0.266"	26.6%	n/a	1	06-00-00
Span / Depth	14.6	n/a	n/a	0	00-00-00

Beari	ng Supports	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0	Post	3-1/2" x 3-1/2"	2,997 lbs	n/a	32.6%	Unspecified
B1	Post	3-1/2" x 3-1/2"	2,997 lbs	n/a	32.6%	Unspecified

### **Cautions**

Member is not fully supported at post B0. A connector is required at this bearing.



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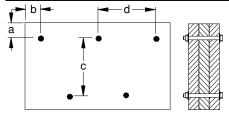
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### **Connection Diagram**

Code reports: ESR-1040



a minimum = 2" c = 5-1/2" b minimum = 2-1/2" d = 24"

Bolts are assumed to be Grade A307 or Grade 2 or higher.

Member has no side loads.

Connectors are: 1/2 in. Staggered Through Bolt

#### **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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