



Triple 1-3/4" x 14" VERSA-LAM® 2.0 3100 SP

Floor Beam\FB01

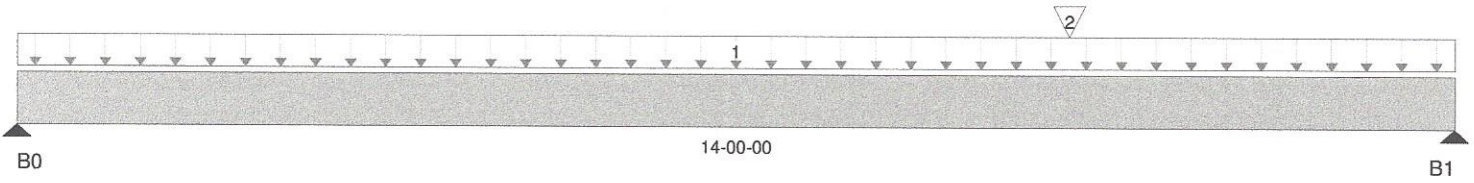
Dry | 1 span | No cantilevers | 0/12 slope

Tuesday, July 15, 2014

BC CALC® Design Report - US

Build 2627
 Job Name: Francoeur Construction
 Address: 250 Burnside Ave
 City, State, Zip: Portland, ME
 Customer: Rufus Deering
 Code reports: ESR-1040

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



Total of Horizontal Design Spans = 14-00-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B0	1,960 / 0	1,828 / 0	2,104 / 0		
B1	1,960 / 0	3,040 / 0	5,749 / 0		

Load Summary

Tag	Description	Load Type	Ref.	Start	End	100%	90%	115%	160%	125%	Trib.
1	Standard Load	Unf. Area (lb/ft ²)	L	00-00-00	14-00-00	20	10				14-00-00
2	Reaction from Desi...	Conc. Pt. (lbs)	L	10-03-00	10-03-00		2,610	7,853			n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	31,828 ft-lbs	63.5%	115%	2	10-03-00
End Shear	8,589 lbs	53.5%	115%	2	01-02-14
Total Load Defl.	L/430 (0.39")	55.8%	n/a	3	07-06-03
Live Load Defl.	L/663 (0.254")	54.3%	n/a	6	07-06-09
Max Defl.	0.39"	39%	n/a	3	07-06-03
Span / Depth	12	n/a	n/a	0	00-00-00

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.
 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.

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.
 Minimum bearing length for B0 is 1-1/2".
 Minimum bearing length for B1 is 2-1/4".
 Entered/Displayed Horizontal Span Length(s) = Clear Span + 1/2 min. end bearing + 1/2 intermediate bearing
 Calculations assume Member is Fully Braced.
 Design based on Dry Service Condition.
 Deflections less than 1/8" were ignored in the results.
 Fastener Manufacturer: TrussLok (tm)