



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Wall Header 10' opening

Dry | 1 span | No cantilevers | 0/12 slope
16-00-00 OCS

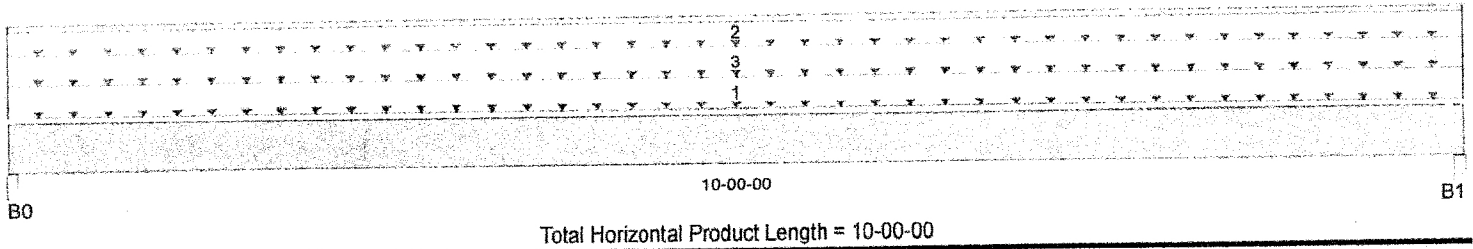
November 30, 2015 10:15:29

BC CALC® Design Report



Build 4137
Job Name: PORTLAND HOUSE
Address:
City, State, Zip: ,
Customer:
Code reports: ESR-1040

File Name: PORTLAND GARAGE.bcc
Description: Designs\10' opening
Specifier:
Designer:
Company:
Misc:



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B0, 3"	5,200 / 0	1,560 / 0			
B1, 3"	5,200 / 0	1,560 / 0			

Load Summary

Tag	Description	Load Type	Ref.	Start	End	100%	90%	115%	160%	125%	OCS
1		Unf. Area (lb/ft ²)	L	00-00-00	10-00-00	40	10				13-00-00
2		Unf. Lin. (lb/ft)	L	00-00-00	10-00-00	0	40				n/a
3		Unf. Area (lb/ft ²)	L	00-00-00	10-00-00	40	10				13-00-00

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	15,657 ft-lbs	73.6%	100%	1	05-00-00
End Shear	5,084 lbs	64.4%	100%	1	01-02-14
Total Load Defl.	L/432 (0.267")	55.5%	n/a	1	05-00-00
Live Load Defl.	L/562 (0.206")	64.1%	n/a	2	05-00-00
Max Defl.	0.267"	26.7%	n/a	1	05-00-00
Span / Depth	9.7	n/a	n/a	0	00-00-00

Bearing Supports

	Dim. (L x W)	Value	% Allow Support	% Allow Member	Material
B0 Post	3" x 3-1/2"	6,760 lbs	88.8%	85.8%	Spruce Pine Fir
B1 Post	3" x 3-1/2"	6,760 lbs	88.8%	85.8%	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.

Location "A" First Floor