

Double 2 x 10 SPF #2
Garage nook beam (WallHeader)

PASSED

BC CALC® Member Report

Dry | 1 span | No cant.

April 4, 2019 15:18:03

Build 7133

Job name: 14 sweetwater

File name:

Address:

Description:

City, State, Zip: Linden, NC

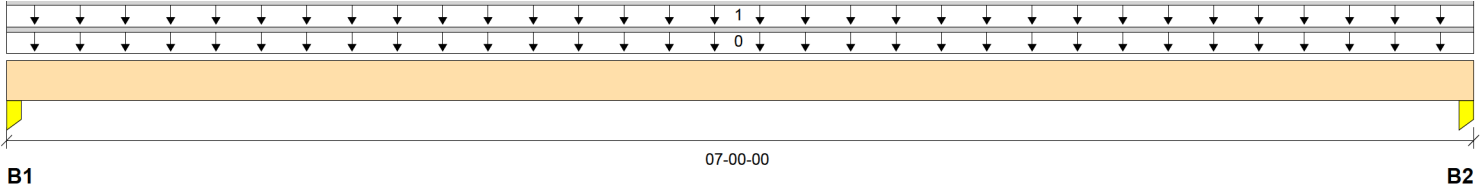
Specifier:

Builder: Ivercon

Designer: Mark Dunham

Code reports: NLGA

Company: Builders FirstSource



Total Horizontal Product Length = 07-00-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 3-1/2"	1463 / 0	565 / 0			
B2, 3-1/2"	1463 / 0	565 / 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	07-00-00	Top		6				00-00-00
1	floor truss	Unf. Lin. (lb/ft)	L	00-00-00	07-00-00	Top	418	155				n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	3099 ft-lbs	90.3%	100%	1	03-06-00
End Shear	1412 lbs	56.5%	100%	1	01-00-12
Total Load Deflection	L/999 (0.086")	n/a	n/a	1	03-06-00
Live Load Deflection	L/999 (0.062")	n/a	n/a	2	03-06-00
Max Defl.	0.086"	n/a	n/a	1	03-06-00
Span / Depth	8.5				

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Column 3-1/2" x 3"	2028 lbs	26.6%	45.4%	Spruce-Pine-Fir
B2	Column 3-1/2" x 3"	2028 lbs	26.6%	45.4%	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.
 BC CALC® analysis is based on IBC 2015.
 Design based on Dry Service Condition.
 The analysis of solid sawn wood members is in accordance with the NDS and is limited to the output shown above. All other support and design for these products, including but not limited to notching, connections, installation, and engineer/architect certification is the responsibility of the project's design professional of record.

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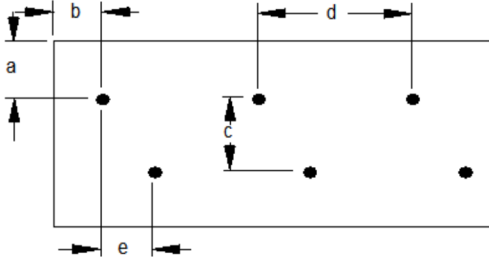
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Connection Diagram: Full Length of Member



a minimum = 1-1/2" c = 6-1/4"
 b minimum = 6" d = 24"
 e minimum = 1"

Connectors are: SDW22300

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.

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,