

door header (Floor Beam)

Dry | 1 span | No cant.

May 13, 2019 11:01:37

BC CALC® Member Report

Build 7192

Job name:

File name:

Address: LINDEN

Description:

City, State, Zip: NC

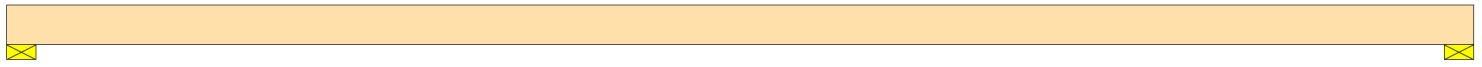
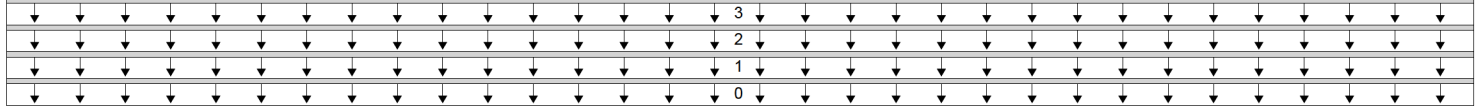
Specifier:

Builder: IVERCON CONST

Designer: Mark Dunham

Code reports: ESR-1040

Company: BUILDERS FIRSTSOURCE



05-07-00

B1

B2

Total Horizontal Product Length = 05-07-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 3-1/2"	1639 / 0	1453 / 0			
B2, 3-1/2"	1639 / 0	1453 / 0			

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	Roof Live 125%	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	05-07-00	Top		9				00-00-00
1	from floor truss	Unf. Lin. (lb/ft)	L	00-00-00	05-07-00	Top	273	101				n/a
2	from wall	Unf. Lin. (lb/ft)	L	00-00-00	05-07-00	Top		96				n/a
3	from roof	Unf. Lin. (lb/ft)	L	00-00-00	05-07-00	Top	314	314				n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	3636 ft-lbs	27.4%	100%	1	02-09-08
End Shear	1915 lbs	31.1%	100%	1	01-00-12
Total Load Deflection	L/999 (0.037")	n/a	n/a	1	02-09-08
Live Load Deflection	L/999 (0.02")	n/a	n/a	2	02-09-08
Max Defl.	0.037"	n/a	n/a	1	02-09-08
Span / Depth	6.6				

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 3-1/2" x 3-1/2"	3091 lbs	n/a	33.6%	Unspecified
B2	Wall/Plate 3-1/2" x 3-1/2"	3091 lbs	n/a	33.6%	Unspecified

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.
 Member has no side loads.

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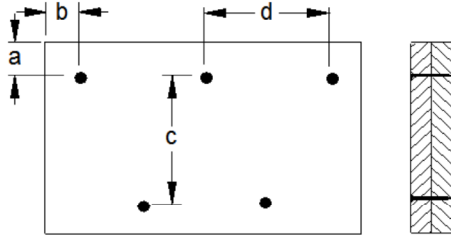
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Connection Diagram: Full Length of Member



a minimum = 2" c = 5-1/4"
 b minimum = 3" d = 24"

Member has no side loads.
 Connectors are: 16d Box Nails

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.

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