

1st Floor\Dropped Beams\GDH-1(i335) (Floor Beam)

BC CALC® Member Report

Dry | 1 span | No cant.

December 10, 2019 14:55:53

Build 7295

Job name: NHZ002

File name:

Address:

Description: 1st Floor\Dropped Beams\GDH-1(i335)

City, State, Zip: City, S...

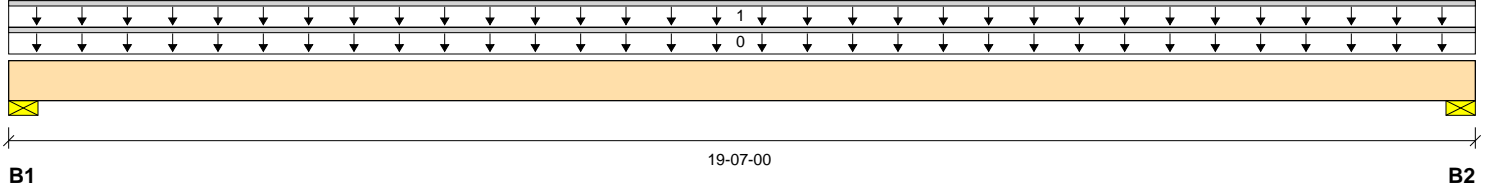
Specifier:

Builder: A&G Residential

Designer: Designer

Code reports: ESR-1040

Company:



Total Horizontal Product Length = 19-07-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 3-1/2"	979 / 0	177 / 0	979 / 0		
B2, 3-1/2"	979 / 0	177 / 0	979 / 0		

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live	Dead	Snow	Wind	Roof Live	Tributary
							100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	19-07-00	Top		18				00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	19-07-00	Top	100		100			n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	7684 ft-lbs	21.5%	115%	3	09-09-08
End Shear	1430 lbs	10.5%	115%	3	01-03-06
Total Load Deflection	L/665 (0.345")	36.1%	n/a	3	09-09-08
Live Load Deflection	L/745 (0.308")	48.3%	n/a	6	09-09-08
Max Defl.	0.345"	34.5%	n/a	3	09-09-08
Span / Depth	19.3				

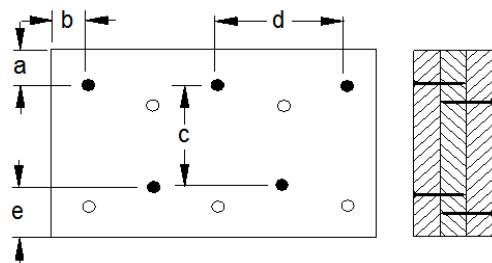
Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 3-1/2" x 5-1/4"	1646 lbs	12.4%	11.9%	Unspecified
B2	Wall/Plate 3-1/2" x 5-1/4"	1646 lbs	12.4%	11.9%	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 unbraced length of Top: 01-10-08, Bottom: 01-10-08.
 BC CALC® analysis is based on IBC 2015.
 Design based on Dry Service Condition.

Connection Diagram: Full Length of Member



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Connection Diagram: Full Length of Member

a minimum = 2"

c = 7-7/8"

b minimum = 3"

d = 24"

e minimum = 3"

Nailing applies to both sides of the member

Connectors are: 3-1/4 in. Pneumatic Gun 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.

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