

Build 7295

Job name: NHZ014

File name:

Address:

Description: 2nd Floor\Dropped Beams\BM1-2(i1338)

City, State, Zip:

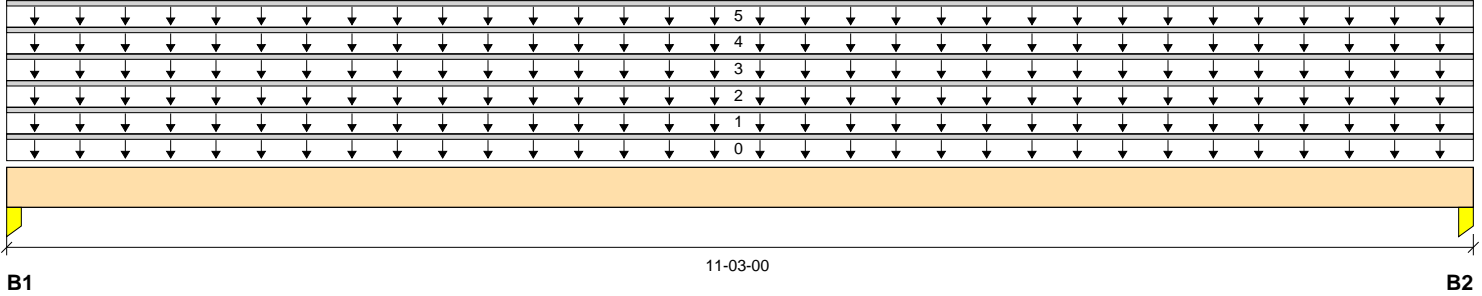
Specifier:

Builder: A&G

Designer:

Code reports: ESR-1040

Company:



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 2-5/16"		614 / 0	561 / 0		
B2, 2-11/16"		617 / 0	564 / 0		

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live				Roof Live	Tributary
							100%	90%	115%	160%		
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	11-03-00	Top		9				00-00-00
1	User Load	Unf. Lin. (lb/ft)	L	00-00-00	11-03-00	Top		100	100			n/a
2	User Load_Unb_N	Unf. Lin. (lb/ft)	L	00-00-00	11-03-00	Top			100			n/a
3	User Load_Unb_S	Unf. Lin. (lb/ft)	L	00-00-00	11-03-00	Top			100			n/a
4	User Load_Unb_E	Unf. Lin. (lb/ft)	L	00-00-00	11-03-00	Top			100			n/a
5	User Load_Unb_W	Unf. Lin. (lb/ft)	L	00-00-00	11-03-00	Top			100			n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	3143 ft-lbs	36.5%	115%	1	05-07-05
End Shear	973 lbs	13.8%	115%	1	00-11-09
Total Load Deflection	L/894 (0.147")	26.9%	n/a	1	05-07-05
Live Load Deflection	L/999 (0.07")	n/a	n/a	6	05-07-05
Max Defl.	0.147"	9.8%	n/a	1	05-07-05
Span / Depth	14.2				

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Column 2-5/16" x 3-1/2"	1174 lbs	20.0%	19.3%	Unspecified
B2	Column 2-11/16" x 3-1/2"	1181 lbs	17.3%	16.7%	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 (1.5") Maximum Total load deflection criteria.
 Calculations assume unbraced length of Top: 11-03-00, Bottom: 11-03-00.
 BC CALC® analysis is based on IBC 2015.
 Unbalanced snow loads determined from building geometry were used in selected product's verification.
 Design based on Dry Service Condition.

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®,

Triple 2 x 12 SP #2

PASSED

2nd Floor\Dropped Beams\BM3-3(i1599) (Floor Beam)

BC CALC® Member Report

Dry | 1 span | No cant.

November 25, 2019 17:03:32

Build 7295

Job name: NHZ014

File name:

Address:

Description: 2nd Floor\Dropped Beams\BM3-3(i1599)

City, State, Zip:

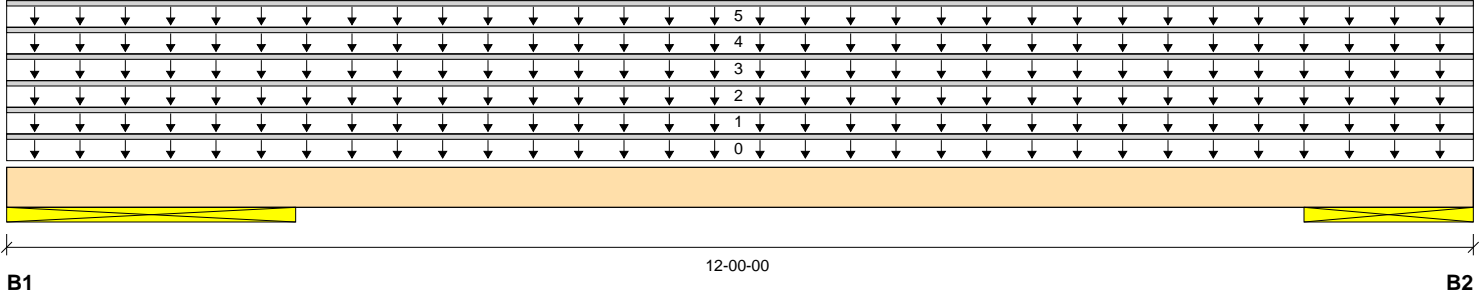
Specifier:

Builder: A&G

Designer:

Code reports: SPIB

Company:



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 28-3/8"		1503 / 0	1428 / 0		
B2, 16-5/8"		1276 / 0	1212 / 0		

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 100%	Dead 90%	Snow 115%	Wind 160%	Roof Live 125%	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	12-00-00	Top		12				00-00-00
1	User Load	Unf. Lin. (lb/ft)	L	00-00-00	12-00-00	Top		220	220			n/a
2	User Load_Unb_N	Unf. Lin. (lb/ft)	L	00-00-00	12-00-00	Top			220			n/a
3	User Load_Unb_S	Unf. Lin. (lb/ft)	L	00-00-00	12-00-00	Top			220			n/a
4	User Load_Unb_E	Unf. Lin. (lb/ft)	L	00-00-00	12-00-00	Top			220			n/a
5	User Load_Unb_W	Unf. Lin. (lb/ft)	L	00-00-00	12-00-00	Top			220			n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	3959 ft-lbs	70.5%	115%	1	06-05-14
End Shear	1439 lbs	21.2%	115%	1	03-03-10
Total Load Deflection	L/999 (0.067")	n/a	n/a	1	06-05-14
Live Load Deflection	L/999 (0.033")	n/a	n/a	6	06-05-14
Max Defl.	0.067"	n/a	n/a	1	06-05-14
Span / Depth	8.9				
Dist. Load (B1)	440.00 lb/ft	1.3%	115%		
Dist. Load (B2)	440.00 lb/ft	1.3%	115%		

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 28-3/8" x 4-1/2"	2931 lbs	3.2%	4.1%	Unspecified
B2	Wall/Plate 16-5/8" x 4-1/2"	2489 lbs	4.6%	5.9%	Unspecified

BC CALC® Member Report

Build 7295

Job name: NHZ014

Address:

City, State, Zip:

Builder: A&G

Code reports: SPIB

File name:

Description: 2nd Floor\Dropped Beams\BM3-3(i1599)

Specifier:

Designer:

Company:

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets arbitrary (1.5") Maximum Total load deflection criteria.

BC CALC® analysis is based on IBC 2015.

Unbalanced snow loads determined from building geometry were used in selected product's verification.

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.

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®,

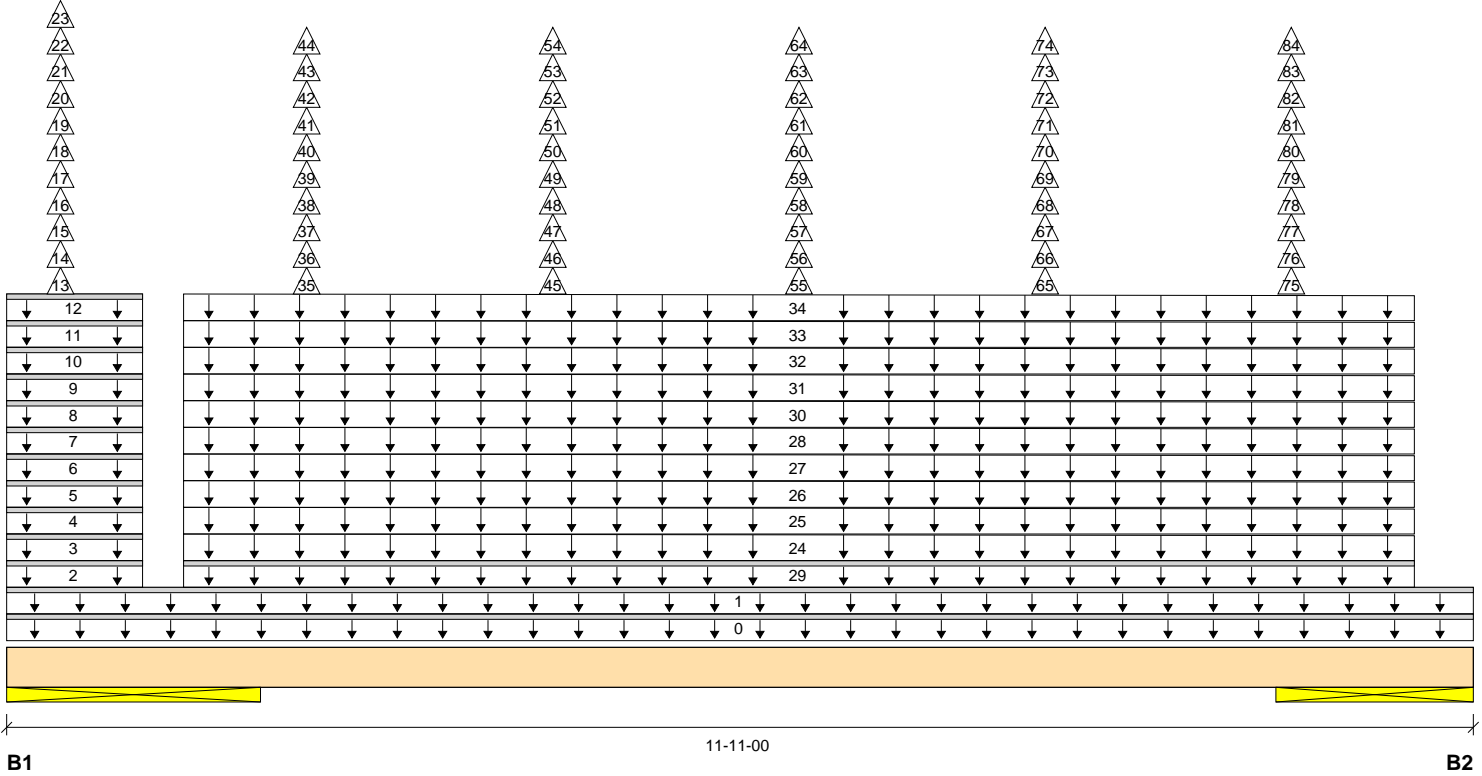
2nd Floor\Dropped Beams\DB3-3(i1578) (Floor Beam)

BC CALC® Member Report
 Build 7295
 Job name: NHZ014
 Address:
 City, State, Zip:
 Builder: A&G
 Code reports: SPIB

Dry | 1 span | No cant.

November 25, 2019 17:03:32

File name:
 Description: 2nd Floor\Dropped Beams\DB3-3(i1578)
 Specifier:
 Designer:
 Company:



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 24-3/4"	196 / 0	3079 / 0	2516 / 0	369 / 2201	2366 / 1
B2, 19-1/4"	181 / 0	2656 / 0	2045 / 0	300 / 1714	1970 / 0

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 100%	Dead 90%	Snow 115%	Wind 160%	Roof Live 125%	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	11-11-00	Top		12				00-00-00
1	Rim1(i1580)	Unf. Lin. (lb/ft)	L	00-00-00	11-11-00	Top	32	101				n/a
2	Rim1(i1580)	Unf. Lin. (lb/ft)	L	00-00-00	01-01-04	Top		488	488		488	n/a
3	Rim1(i1580)_Unb_N	Unf. Lin. (lb/ft)	L	00-00-00	01-01-04	Top			550			n/a
4	Rim1(i1580)_Unb_S	Unf. Lin. (lb/ft)	L	00-00-00	01-01-04	Top			326			n/a
5	Rim1(i1580)_Unb_E	Unf. Lin. (lb/ft)	L	00-00-00	01-01-04	Top			560			n/a
6	Rim1(i1580)_Unb_W	Unf. Lin. (lb/ft)	L	00-00-00	01-01-04	Top			560			n/a
7	Rim1(i1580)_N_EX+	Unf. Lin. (lb/ft)	L	00-00-00	01-01-04	Top				4		n/a
8	Rim1(i1580)_S_EX+	Unf. Lin. (lb/ft)	L	00-00-00	01-01-04	Top				15		n/a
9	Rim1(i1580)_N_INT-	Unf. Lin. (lb/ft)	L	00-00-00	01-01-04	Top				83		n/a
10	Rim1(i1580)_S_INT-	Unf. Lin. (lb/ft)	L	00-00-00	01-01-04	Top				83		n/a
11	Rim1(i1580)_E_INT-	Unf. Lin. (lb/ft)	L	00-00-00	01-01-04	Top				83		n/a
12	Rim1(i1580)_W_INT-	Unf. Lin. (lb/ft)	L	00-00-00	01-01-04	Top				83		n/a
13	Rim1(i1580)	Conc. Pt. (lbs)	L	00-05-04	00-05-04	Top					-1	n/a
14	Rim1(i1580)_N_EX-	Conc. Pt. (lbs)	L	00-05-04	00-05-04	Top				-288		n/a
15	Rim1(i1580)_S_EX-	Conc. Pt. (lbs)	L	00-05-04	00-05-04	Top				-243		n/a
16	Rim1(i1580)_E_EX+	Conc. Pt. (lbs)	L	00-05-04	00-05-04	Top				-564		n/a
17	Rim1(i1580)_E_EX-	Conc. Pt. (lbs)	L	00-05-04	00-05-04	Top				-564		n/a

Triple 2 x 12 SP #1

PASSED

2nd Floor\Dropped Beams\DB3-3(i1578) (Floor Beam)

Dry | 1 span | No cant.

November 25, 2019 17:03:32

 BC CALC® Member Report
 Build 7295
 Job name: NHZ014
 Address:
 City, State, Zip:
 Builder: A&G
 Code reports: SPIB

 File name:
 Description: 2nd Floor\Dropped Beams\DB3-3(i1578)
 Specifier:
 Designer:
 Company:

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live		Snow	Wind	Roof Live	Tributary
							100%	90%				
18	Rim1(i1580)_W_EX+	Conc. Pt. (lbs)	L	00-05-04	00-05-04	Top				-394		n/a
19	Rim1(i1580)_W_EX-	Conc. Pt. (lbs)	L	00-05-04	00-05-04	Top				-393		n/a
20	Rim1(i1580)_N_INT+	Conc. Pt. (lbs)	L	00-05-04	00-05-04	Top				-110		n/a
21	Rim1(i1580)_S_INT+	Conc. Pt. (lbs)	L	00-05-04	00-05-04	Top				-110		n/a
22	Rim1(i1580)_E_INT+	Conc. Pt. (lbs)	L	00-05-04	00-05-04	Top				-110		n/a
23	Rim1(i1580)_W_INT+	Conc. Pt. (lbs)	L	00-05-04	00-05-04	Top				-110		n/a
24	Rim1(i1580)	Trapezoidal (lb/ft)	L	01-05-04		Top		392	407		392	n/a
					11-05-04			379	381		392	
25	Rim1(i1580)_Unb_N	Trapezoidal (lb/ft)	L	01-05-04		Top			400			n/a
					11-05-04				375			
26	Rim1(i1580)_Unb_S	Trapezoidal (lb/ft)	L	01-05-04		Top			229			n/a
					11-05-04				217			
27	Rim1(i1580)_Unb_E	Trapezoidal (lb/ft)	L	01-05-04		Top			407			n/a
					11-05-04				381			
28	Rim1(i1580)_Unb_W	Trapezoidal (lb/ft)	L	01-05-04		Top			407			n/a
					11-05-04				381			
29	Rim1(i1580)_N_EX+	Unf. Lin. (lb/ft)	L	01-05-04	11-05-04	Top				3		n/a
30	Rim1(i1580)_S_EX+	Trapezoidal (lb/ft)	L	01-05-04		Top				11		n/a
					11-05-04					10		
31	Rim1(i1580)_N_INT-	Trapezoidal (lb/ft)	L	01-05-04		Top				60		n/a
					11-05-04					56		
32	Rim1(i1580)_S_INT-	Trapezoidal (lb/ft)	L	01-05-04		Top				60		n/a
					11-05-04					56		
33	Rim1(i1580)_E_INT-	Trapezoidal (lb/ft)	L	01-05-04		Top				60		n/a
					11-05-04					56		
34	Rim1(i1580)_W_INT-	Trapezoidal (lb/ft)	L	01-05-04		Top				60		n/a
					11-05-04					56		
35	Rim1(i1580)_N_EX-	Conc. Pt. (lbs)	L	02-05-04	02-05-04	Top				-346		n/a
36	Rim1(i1580)_S_EX-	Conc. Pt. (lbs)	L	02-05-04	02-05-04	Top				-293		n/a
37	Rim1(i1580)_E_EX+	Conc. Pt. (lbs)	L	02-05-04	02-05-04	Top				-660		n/a
38	Rim1(i1580)_E_EX-	Conc. Pt. (lbs)	L	02-05-04	02-05-04	Top				-692		n/a
39	Rim1(i1580)_W_EX+	Conc. Pt. (lbs)	L	02-05-04	02-05-04	Top				-425		n/a
40	Rim1(i1580)_W_EX-	Conc. Pt. (lbs)	L	02-05-04	02-05-04	Top				-457		n/a
41	Rim1(i1580)_N_INT+	Conc. Pt. (lbs)	L	02-05-04	02-05-04	Top				-118		n/a
42	Rim1(i1580)_S_INT+	Conc. Pt. (lbs)	L	02-05-04	02-05-04	Top				-118		n/a
43	Rim1(i1580)_E_INT+	Conc. Pt. (lbs)	L	02-05-04	02-05-04	Top				-118		n/a
44	Rim1(i1580)_W_INT+	Conc. Pt. (lbs)	L	02-05-04	02-05-04	Top				-118		n/a
45	Rim1(i1580)_N_EX-	Conc. Pt. (lbs)	L	04-05-04	04-05-04	Top				-330		n/a
46	Rim1(i1580)_S_EX-	Conc. Pt. (lbs)	L	04-05-04	04-05-04	Top				-279		n/a
47	Rim1(i1580)_E_EX+	Conc. Pt. (lbs)	L	04-05-04	04-05-04	Top				-647		n/a
48	Rim1(i1580)_E_EX-	Conc. Pt. (lbs)	L	04-05-04	04-05-04	Top				-670		n/a
49	Rim1(i1580)_W_EX+	Conc. Pt. (lbs)	L	04-05-04	04-05-04	Top				-417		n/a
50	Rim1(i1580)_W_EX-	Conc. Pt. (lbs)	L	04-05-04	04-05-04	Top				-440		n/a
51	Rim1(i1580)_N_INT+	Conc. Pt. (lbs)	L	04-05-04	04-05-04	Top				-116		n/a
52	Rim1(i1580)_S_INT+	Conc. Pt. (lbs)	L	04-05-04	04-05-04	Top				-116		n/a
53	Rim1(i1580)_E_INT+	Conc. Pt. (lbs)	L	04-05-04	04-05-04	Top				-116		n/a
54	Rim1(i1580)_W_INT+	Conc. Pt. (lbs)	L	04-05-04	04-05-04	Top				-116		n/a
55	Rim1(i1580)_N_EX-	Conc. Pt. (lbs)	L	06-05-04	06-05-04	Top				-330		n/a
56	Rim1(i1580)_S_EX-	Conc. Pt. (lbs)	L	06-05-04	06-05-04	Top				-279		n/a

2nd Floor\Dropped Beams\DB3-3(i1578) (Floor Beam)

Dry | 1 span | No cant.

November 25, 2019 17:03:32

BC CALC® Member Report

Build 7295

Job name: NHZ014

Address:

City, State, Zip:

Builder: A&G

Code reports: SPIB

File name:

Description: 2nd Floor\Dropped Beams\DB3-3(i1578)

Specifier:

Designer:

Company:

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live	Dead	Snow	Wind	Roof Live	Tributary
							100%	90%	115%	160%	125%	
57	Rim1(i1580)_E_EX+	Conc. Pt. (lbs)	L	06-05-04	06-05-04	Top				-647		n\ a
58	Rim1(i1580)_E_EX-	Conc. Pt. (lbs)	L	06-05-04	06-05-04	Top				-670		n\ a
59	Rim1(i1580)_W_EX+	Conc. Pt. (lbs)	L	06-05-04	06-05-04	Top				-417		n\ a
60	Rim1(i1580)_W_EX-	Conc. Pt. (lbs)	L	06-05-04	06-05-04	Top				-440		n\ a
61	Rim1(i1580)_N_INT+	Conc. Pt. (lbs)	L	06-05-04	06-05-04	Top				-116		n\ a
62	Rim1(i1580)_S_INT+	Conc. Pt. (lbs)	L	06-05-04	06-05-04	Top				-116		n\ a
63	Rim1(i1580)_E_INT+	Conc. Pt. (lbs)	L	06-05-04	06-05-04	Top				-116		n\ a
64	Rim1(i1580)_W_INT+	Conc. Pt. (lbs)	L	06-05-04	06-05-04	Top				-116		n\ a
65	Rim1(i1580)_N_EX-	Conc. Pt. (lbs)	L	08-05-04	08-05-04	Top				-330		n\ a
66	Rim1(i1580)_S_EX-	Conc. Pt. (lbs)	L	08-05-04	08-05-04	Top				-279		n\ a
67	Rim1(i1580)_E_EX+	Conc. Pt. (lbs)	L	08-05-04	08-05-04	Top				-647		n\ a
68	Rim1(i1580)_E_EX-	Conc. Pt. (lbs)	L	08-05-04	08-05-04	Top				-670		n\ a
69	Rim1(i1580)_W_EX+	Conc. Pt. (lbs)	L	08-05-04	08-05-04	Top				-390		n\ a
70	Rim1(i1580)_W_EX-	Conc. Pt. (lbs)	L	08-05-04	08-05-04	Top				-413		n\ a
71	Rim1(i1580)_N_INT+	Conc. Pt. (lbs)	L	08-05-04	08-05-04	Top				-116		n\ a
72	Rim1(i1580)_S_INT+	Conc. Pt. (lbs)	L	08-05-04	08-05-04	Top				-116		n\ a
73	Rim1(i1580)_E_INT+	Conc. Pt. (lbs)	L	08-05-04	08-05-04	Top				-116		n\ a
74	Rim1(i1580)_W_INT+	Conc. Pt. (lbs)	L	08-05-04	08-05-04	Top				-116		n\ a
75	Rim1(i1580)_N_EX-	Conc. Pt. (lbs)	L	10-05-04	10-05-04	Top				-319		n\ a
76	Rim1(i1580)_S_EX-	Conc. Pt. (lbs)	L	10-05-04	10-05-04	Top				-270		n\ a
77	Rim1(i1580)_E_EX+	Conc. Pt. (lbs)	L	10-05-04	10-05-04	Top				-627		n\ a
78	Rim1(i1580)_E_EX-	Conc. Pt. (lbs)	L	10-05-04	10-05-04	Top				-649		n\ a
79	Rim1(i1580)_W_EX+	Conc. Pt. (lbs)	L	10-05-04	10-05-04	Top				-340		n\ a
80	Rim1(i1580)_W_EX-	Conc. Pt. (lbs)	L	10-05-04	10-05-04	Top				-362		n\ a
81	Rim1(i1580)_N_INT+	Conc. Pt. (lbs)	L	10-05-04	10-05-04	Top				-112		n\ a
82	Rim1(i1580)_S_INT+	Conc. Pt. (lbs)	L	10-05-04	10-05-04	Top				-112		n\ a
83	Rim1(i1580)_E_INT+	Conc. Pt. (lbs)	L	10-05-04	10-05-04	Top				-112		n\ a
84	Rim1(i1580)_W_INT+	Conc. Pt. (lbs)	L	10-05-04	10-05-04	Top				-112		n\ a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	7832 ft-lbs	86.1%	115%	6	06-02-04
End Shear	3601 lbs	53.0%	115%	6	03-00-00
Total Load Deflection	L/999 (0.116")	n\ a	n\ a	6	06-02-04
Live Load Deflection	L/999 (0.051")	n\ a	n\ a	309	06-02-04
Max Defl.	0.116"	n\ a	n\ a	6	06-02-04
Span / Depth	8.9				
Dist. Load (B1)	1148.74 lb/ft	3.3%	115%		
Dist. Load (B2)	865.43 lb/ft	2.5%	115%		

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material	
B1	Wall/Plate	24-3/4" x 4-1/2"	5595 lbs	6.9%	8.9%	Unspecified
B2	Wall/Plate	19-1/4" x 4-1/2"	4701 lbs	12.8%	9.6%	Unspecified

BC CALC® Member Report

Build 7295

Job name: NHZ014

Address:

City, State, Zip:

Builder: A&G

Code reports: SPIB

File name:

Description: 2nd Floor\Dropped Beams\DB3-3(i1578)

Specifier:

Designer:

Company:

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Design meets arbitrary (1.5") Maximum Total load deflection criteria.

Calculations assume member is fully braced.

BC CALC® analysis is based on IBC 2015.

Unbalanced snow loads determined from building geometry were used in selected product's verification.

Wind loads determined from building geometry were used in selected product's verification.

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.

Disclosure

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

2nd Floor\Floor Beams\FB1-3(i1556) (Floor Beam)

Dry | 1 span | No cant.

November 25, 2019 17:03:32

BC CALC® Member Report

Build 7295

Job name: NHZ014

File name:

Address:

Description: 2nd Floor\Floor Beams\FB1-3(i1556)

City, State, Zip:

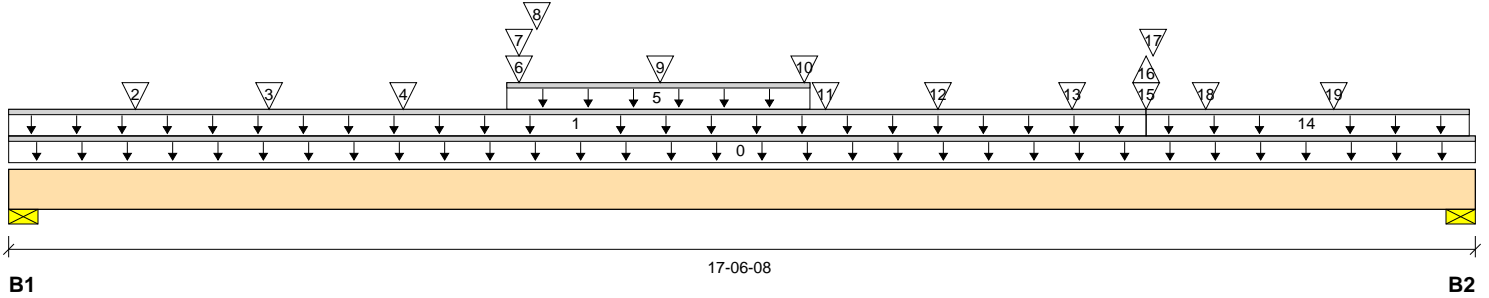
Specifier:

Builder: A&G

Designer:

Code reports: ESR-1040

Company:



Total Horizontal Product Length = 17-06-08

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 4-1/2"	2800 / 61	1706 / 0			
B2, 5-1/2"	3146 / 230	2205 / 0			

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 100%	Dead 90%	Snow 115%	Wind 160%	Roof Live 125%	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	17-06-08	Top		21				00-00-00
1	FC2 Floor Material	Unf. Lin. (lb/ft)	L	00-00-00	13-07-04	Top	28	7				n/a
2	FJ-3(i1400)	Conc. Pt. (lbs)	L	01-06-03	01-06-03	Back	489	225				n/a
3	FJ-3(i1402)	Conc. Pt. (lbs)	L	03-01-06	03-01-06	Back	489	207				n/a
4	FJ-3(i1453)	Conc. Pt. (lbs)	L	04-08-10	04-08-10	Back	489	228				n/a
5	FC2 Floor Material	Unf. Lin. (lb/ft)	L	05-11-08	09-07-00	Top		22				n/a
6	28(i163)	Conc. Pt. (lbs)	L	06-01-04	06-01-04	Top		28				n/a
7	FC2 Floor Material	Conc. Pt. (lbs)	L	06-01-04	06-01-04	Top		23				n/a
8	FJ-3(i1379)	Conc. Pt. (lbs)	L	06-03-13	06-03-13	Back	470	332				n/a
9	FJ-3(i1439)	Conc. Pt. (lbs)	L	07-09-08	07-09-08	Back	489	207				n/a
10	FJ-3(i1387)	Conc. Pt. (lbs)	L	09-06-03	09-06-03	Back	508	323				n/a
11	24(i160)	Conc. Pt. (lbs)	L	09-09-04	09-09-04	Top		64				n/a
12	FJ-3(i1449)	Conc. Pt. (lbs)	L	11-01-06	11-01-06	Back	489	277				n/a
13	FJ-3(i1413)	Conc. Pt. (lbs)	L	12-08-10	12-08-10	Back	489	296				n/a
14	FC2 Floor Material	Unf. Lin. (lb/ft)	L	13-07-04	17-05-10	Top	28	7				n/a
15	FJ-7-2(i1546)	Conc. Pt. (lbs)	L	13-07-04	13-07-04	Front	488	257				n/a
16	FJ-7-2(i1546)	Conc. Pt. (lbs)	L	13-07-04	13-07-04	Front	-291					n/a
17	29(i164)	Conc. Pt. (lbs)	L	13-08-04	13-08-04	Top		32				n/a
18	FJ-3(i1396)	Conc. Pt. (lbs)	L	14-03-13	14-03-13	Back	479	294				n/a
19	FJ-4-2(i1394)	Conc. Pt. (lbs)	L	15-10-03	15-10-03	Back	585	544				n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	21265 ft-lbs	48.8%	100%	1	09-06-03
End Shear	5264 lbs	37.7%	100%	1	15-11-00
Total Load Deflection	L/446 (0.453")	53.8%	n/a	1	08-10-07
Live Load Deflection	L/739 (0.273")	48.7%	n/a	3	08-10-07
Max Defl.	0.453"	30.2%	n/a	1	08-10-07
Span / Depth	14.4				

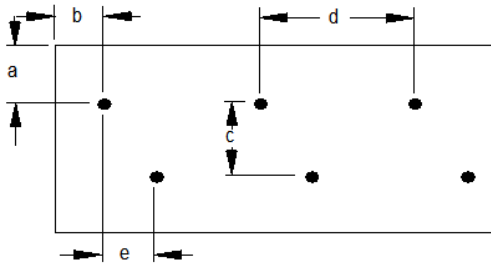
Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 4-1/2" x 5-1/4"	4507 lbs	44.9%	25.4%	Unspecified
B2	Wall/Plate 5-1/2" x 5-1/4"	5352 lbs	43.6%	24.7%	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 (1.5") 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.

Connection Diagram: Full Length of Member



a minimum = 1-1/2" c = 11"
 b minimum = 4" d = 12"
 e minimum = 1"

Calculated Side Load = 951.0 lb/ft
 Install screws with screw heads in the loaded ply.
 Connectors are: SDS 1/4 x 4-1/2

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