



Single 3-1/2" x 9-1/4" VERSA-LAM® 1.7 2650 SP
1ST FLOOR\Dropped Beams\DB1(i6494) (Dropped Beam)

PASSED

BC CALC® Member Report

Dry | 4 spans | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 1ST FLOOR\Dropped Beams\DB1(i6494)

City, State, Zip:

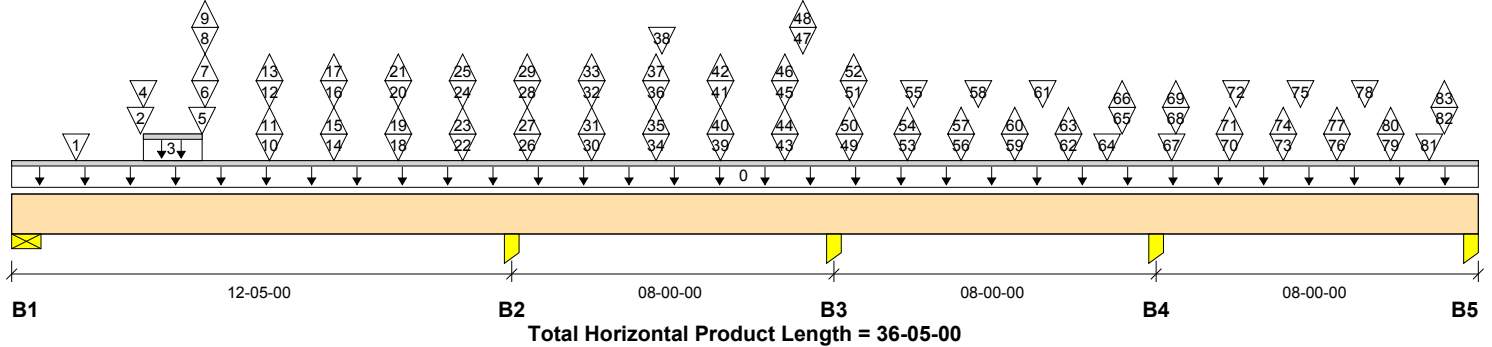
Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 8"	2528 / 171	629 / 0			
B2, 16"	5274 / 1035	1741 / 0			
B3, 16"	3508 / 1693	1478 / 0			
B4, 16"	3685 / 837	694 / 0			
B5, 8"	1296 / 327	241 / 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	36-05-00	Top		9				00-00-00
1	FJ-12(i6385)	Conc. Pt. (lbs)	L	01-07-03	01-07-03	Top	1119	280				n/a
2	FJ-12(i6383)	Conc. Pt. (lbs)	L	03-02-06	03-02-06	Top	1098	275				n/a
3	Bk1(i6423)	Unf. Lin. (lb/ft)	L	03-03-04	04-08-12	Top	57	14				n/a
4	Bk1(i6423)	Conc. Pt. (lbs)	L	03-03-04	03-03-04	Top	4	1				n/a
5	Bk1(i6423)	Conc. Pt. (lbs)	L	04-08-12	04-08-12	Top	4	1				n/a
6	FJ-6(i6380)	Conc. Pt. (lbs)	L	04-09-10	04-09-10	Top	294	40				n/a
7	FJ-6(i6380)	Conc. Pt. (lbs)	L	04-09-10	04-09-10	Top	-84					n/a
8	FJ-6(i6481)	Conc. Pt. (lbs)	L	04-09-10	04-09-10	Top	282	91				n/a
9	FJ-6(i6481)	Conc. Pt. (lbs)	L	04-09-10	04-09-10	Top	-52					n/a
10	FJ-6(i6344)	Conc. Pt. (lbs)	L	06-04-13	06-04-13	Top	294	44				n/a
11	FJ-6(i6344)	Conc. Pt. (lbs)	L	06-04-13	06-04-13	Top	-79					n/a
12	FJ-6(i6483)	Conc. Pt. (lbs)	L	06-04-13	06-04-13	Top	312	91				n/a
13	FJ-6(i6483)	Conc. Pt. (lbs)	L	06-04-13	06-04-13	Top	-49					n/a
14	FJ-6(i6344)	Conc. Pt. (lbs)	L	08-00-00	08-00-00	Top	294	44				n/a
15	FJ-6(i6344)	Conc. Pt. (lbs)	L	08-00-00	08-00-00	Top	-79					n/a
16	FJ-6(i6485)	Conc. Pt. (lbs)	L	08-00-00	08-00-00	Top	312	91				n/a
17	FJ-6(i6485)	Conc. Pt. (lbs)	L	08-00-00	08-00-00	Top	-49					n/a
18	FJ-6(i6344)	Conc. Pt. (lbs)	L	09-07-03	09-07-03	Top	294	44				n/a
19	FJ-6(i6344)	Conc. Pt. (lbs)	L	09-07-03	09-07-03	Top	-79					n/a
20	FJ-6(i6487)	Conc. Pt. (lbs)	L	09-07-03	09-07-03	Top	312	91				n/a
21	FJ-6(i6487)	Conc. Pt. (lbs)	L	09-07-03	09-07-03	Top	-49					n/a
22	FJ-6(i6344)	Conc. Pt. (lbs)	L	11-02-06	11-02-06	Top	294	44				n/a
23	FJ-6(i6344)	Conc. Pt. (lbs)	L	11-02-06	11-02-06	Top	-79					n/a
24	FJ-6(i6492)	Conc. Pt. (lbs)	L	11-02-06	11-02-06	Top	312	91				n/a
25	FJ-6(i6492)	Conc. Pt. (lbs)	L	11-02-06	11-02-06	Top	-49					n/a
26	FJ-6(i6298)	Conc. Pt. (lbs)	L	12-09-10	12-09-10	Top	295	107				n/a
27	FJ-6(i6298)	Conc. Pt. (lbs)	L	12-09-10	12-09-10	Top	-79					n/a
28	FJ-6(i6486)	Conc. Pt. (lbs)	L	12-09-10	12-09-10	Top	312	91				n/a



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Build 8013

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Address:

Description: 1ST FLOOR\Dropped Beams\DB1(i6494)

City, State, Zip:

Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live	Dead	Snow	Wind	Roof Live	Tributary
							100%	90%	115%	160%	125%	
29	FJ-6(i6486)	Conc. Pt. (lbs)	L	12-09-10	12-09-10	Top	-49					n\ a
30	FJ-6(i6309)	Conc. Pt. (lbs)	L	14-04-13	14-04-13	Top	295	326				n\ a
31	FJ-6(i6309)	Conc. Pt. (lbs)	L	14-04-13	14-04-13	Top	-79					n\ a
32	FJ-6(i6493)	Conc. Pt. (lbs)	L	14-04-13	14-04-13	Top	312	91				n\ a
33	FJ-6(i6493)	Conc. Pt. (lbs)	L	14-04-13	14-04-13	Top	-49					n\ a
34	FJ-6(i6364)	Conc. Pt. (lbs)	L	16-00-00	16-00-00	Top	295	247				n\ a
35	FJ-6(i6364)	Conc. Pt. (lbs)	L	16-00-00	16-00-00	Top	-79					n\ a
36	FJ-6(i6479)	Conc. Pt. (lbs)	L	16-00-00	16-00-00	Top	312	306				n\ a
37	FJ-6(i6479)	Conc. Pt. (lbs)	L	16-00-00	16-00-00	Top	-49					n\ a
38	Bk1(i6437)	Conc. Pt. (lbs)	L	16-01-12	16-01-12	Top		8				n\ a
39	FJ-6(i6321)	Conc. Pt. (lbs)	L	17-07-03	17-07-03	Top	295	180				n\ a
40	FJ-6(i6321)	Conc. Pt. (lbs)	L	17-07-03	17-07-03	Top	-79					n\ a
41	FJ-6(i6484)	Conc. Pt. (lbs)	L	17-07-03	17-07-03	Top	312	106				n\ a
42	FJ-6(i6484)	Conc. Pt. (lbs)	L	17-07-03	17-07-03	Top	-49					n\ a
43	FJ-6(i6221)	Conc. Pt. (lbs)	L	19-02-06	19-02-06	Top	189	110				n\ a
44	FJ-6(i6221)	Conc. Pt. (lbs)	L	19-02-06	19-02-06	Top	-51					n\ a
45	FJ-6(i6491)	Conc. Pt. (lbs)	L	19-02-06	19-02-06	Top	311	184				n\ a
46	FJ-6(i6491)	Conc. Pt. (lbs)	L	19-02-06	19-02-06	Top	-49					n\ a
47	FJ-6(i6279)	Conc. Pt. (lbs)	L	19-07-12	19-07-12	Top	156	224				n\ a
48	FJ-6(i6279)	Conc. Pt. (lbs)	L	19-07-12	19-07-12	Top	-42					n\ a
49	FJ-6(i6478)	Conc. Pt. (lbs)	L	20-09-10	20-09-10	Top	311	135				n\ a
50	FJ-6(i6478)	Conc. Pt. (lbs)	L	20-09-10	20-09-10	Top	-37					n\ a
51	FJ-4(i6332)	Conc. Pt. (lbs)	L	20-10-14	20-10-14	Top	241	34				n\ a
52	FJ-4(i6332)	Conc. Pt. (lbs)	L	20-10-14	20-10-14	Top	-105					n\ a
53	FJ-4(i6378)	Conc. Pt. (lbs)	L	22-02-14	22-02-14	Top	246	24				n\ a
54	FJ-4(i6378)	Conc. Pt. (lbs)	L	22-02-14	22-02-14	Top	-107					n\ a
55	FJ-12(i6372)	Conc. Pt. (lbs)	L	22-04-13	22-04-13	Top	350	95				n\ a
56	FJ-4(i6205)	Conc. Pt. (lbs)	L	23-06-14	23-06-14	Top	246	22				n\ a
57	FJ-4(i6205)	Conc. Pt. (lbs)	L	23-06-14	23-06-14	Top	-107					n\ a
58	FJ-12(i6404)	Conc. Pt. (lbs)	L	24-00-00	24-00-00	Top	349	87				n\ a
59	FJ-4(i6205)	Conc. Pt. (lbs)	L	24-10-14	24-10-14	Top	246	22				n\ a
60	FJ-4(i6205)	Conc. Pt. (lbs)	L	24-10-14	24-10-14	Top	-107					n\ a
61	FJ-12(i6404)	Conc. Pt. (lbs)	L	25-07-03	25-07-03	Top	349	87				n\ a
62	FJ-4(i6205)	Conc. Pt. (lbs)	L	26-02-14	26-02-14	Top	246	22				n\ a
63	FJ-4(i6205)	Conc. Pt. (lbs)	L	26-02-14	26-02-14	Top	-107					n\ a
64	FJ-12(i6404)	Conc. Pt. (lbs)	L	27-02-06	27-02-06	Top	349	87				n\ a
65	FJ-4(i6205)	Conc. Pt. (lbs)	L	27-06-14	27-06-14	Top	246	22				n\ a
66	FJ-4(i6205)	Conc. Pt. (lbs)	L	27-06-14	27-06-14	Top	-107					n\ a
67	FJ-12(i6367)	Conc. Pt. (lbs)	L	28-09-10	28-09-10	Top	351	88				n\ a
68	FJ-4(i6274)	Conc. Pt. (lbs)	L	28-10-14	28-10-14	Top	248	22				n\ a
69	FJ-4(i6274)	Conc. Pt. (lbs)	L	28-10-14	28-10-14	Top	-108					n\ a
70	FJ-4(i6262)	Conc. Pt. (lbs)	L	30-02-14	30-02-14	Top	246	22				n\ a
71	FJ-4(i6262)	Conc. Pt. (lbs)	L	30-02-14	30-02-14	Top	-107					n\ a
72	FJ-12(i6404)	Conc. Pt. (lbs)	L	30-04-13	30-04-13	Top	349	87				n\ a
73	FJ-4(i6405)	Conc. Pt. (lbs)	L	31-06-14	31-06-14	Top	246	28				n\ a
74	FJ-4(i6405)	Conc. Pt. (lbs)	L	31-06-14	31-06-14	Top	-90					n\ a
75	FJ-12(i6404)	Conc. Pt. (lbs)	L	32-00-00	32-00-00	Top	349	87				n\ a
76	FJ-4(i6304)	Conc. Pt. (lbs)	L	32-10-14	32-10-14	Top	246	23				n\ a
77	FJ-4(i6304)	Conc. Pt. (lbs)	L	32-10-14	32-10-14	Top	-71					n\ a



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Code reports: ESR-1040

Company:

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live	Dead	Snow	Wind	Roof Live	Tributary
							100%	90%	115%	160%	125%	
78	FJ-12(i6404)	Conc. Pt. (lbs)	L	33-07-03	33-07-03	Top	349	87				n/a
79	FJ-4(i6262)	Conc. Pt. (lbs)	L	34-02-14	34-02-14	Top	246	22				n/a
80	FJ-4(i6262)	Conc. Pt. (lbs)	L	34-02-14	34-02-14	Top	-107					n/a
81	FJ-12(i6404)	Conc. Pt. (lbs)	L	35-02-06	35-02-06	Top	349	87				n/a
82	FJ-4(i6262)	Conc. Pt. (lbs)	L	35-06-14	35-06-14	Top	246	22				n/a
83	FJ-4(i6262)	Conc. Pt. (lbs)	L	35-06-14	35-06-14	Top	-107					n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	6538 ft-lbs	57.8%	100%	3	04-09-10
Neg. Moment	-7040 ft-lbs	75.7%	100%	5	11-09-00
End Shear	3183 lbs	51.7%	100%	3	01-05-04
Cont. Shear	3391 lbs	55.1%	100%	5	10-11-12
Total Load Deflection	L/444 (0.319")	54.0%	n/a	3	05-07-03
Live Load Deflection	L/503 (0.282")	71.6%	n/a	13	05-09-10
Total Neg. Defl.	L/999 (-0.068")	n/a	n/a	3	14-11-07
Max Defl.	0.319"	21.3%	n/a	3	05-07-03
Span / Depth	15.3				
Conc. Load (B2)	805 lbs	8.8%	100%		
Conc. Load (B3)	721 lbs	7.8%	100%		
Conc. Load (B4)	709 lbs	7.7%	100%		

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material	
B1	Wall/Plate	8" x 3-1/2"	3196 lbs	13.0%	15.2%	Unspecified
B2	Column	16" x 3-1/2"	6692 lbs	16.5%	15.9%	Unspecified
B3	Column	16" x 3-1/2"	4800 lbs	11.8%	11.4%	Unspecified
B3	Uplift		258 lbs			
B4	Column	16" x 3-1/2"	4436 lbs	10.9%	10.6%	Unspecified
B4	Uplift		212 lbs			
B5	Column	8" x 3-1/2"	1630 lbs	8.0%	7.8%	Unspecified
B5	Uplift		123 lbs			

Cautions

Uplift of -258 lbs found at bearing B3.

Uplift of -212 lbs found at bearing B4.

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.

Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 01-06-05, Bottom: 35-09-00.

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®,



Single 3-1/2" x 9-1/4" VERSA-LAM® 1.7 2650 SP
1ST FLOOR\Dropped Beams\DB2(i6289) (Dropped Beam)

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Build 8013

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City, State, Zip:

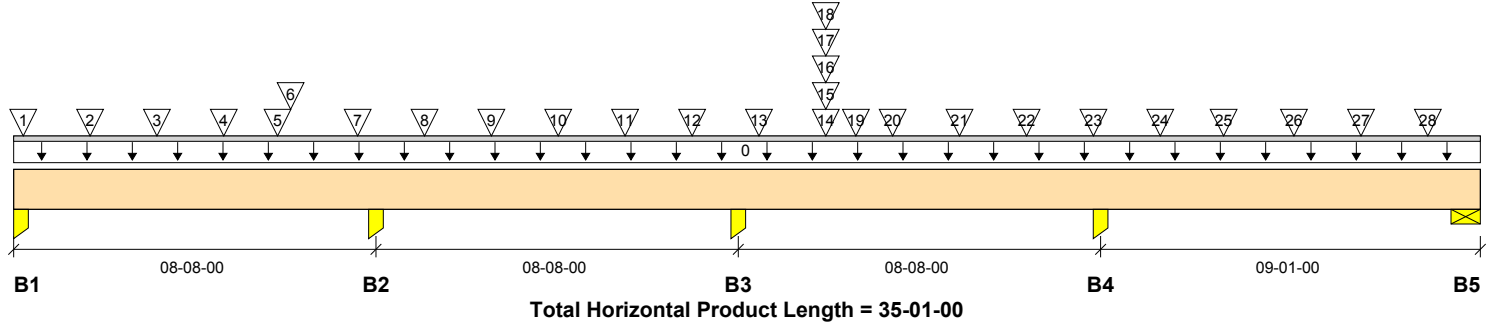
Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 8"	2682 / 169	908 / 0	0 / 0		
B2, 16"	6077 / 0	2937 / 0	0 / 0		
B3, 16"	5534 / 0	2281 / 0	18 / 0		
B4, 16"	4853 / 0	1332 / 0	3 / 0		
B5, 7"	1556 / 94	398 / 0	0 / 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	35-01-00	Top		9				00-00-00
1	FJ-5(i6258)	Conc. Pt. (lbs)	L	00-02-12	00-02-12	Top	985	308				n\la
2	FJ-5(i6248)	Conc. Pt. (lbs)	L	01-09-15	01-09-15	Top	985	308				n\la
3	FJ-5(i6393)	Conc. Pt. (lbs)	L	03-05-02	03-05-02	Top	985	308				n\la
4	FJ-5(i6252)	Conc. Pt. (lbs)	L	05-00-05	05-00-05	Top	888	278				n\la
5	FJ-5(i6220)	Conc. Pt. (lbs)	L	06-03-12	06-03-12	Top	492	990				n\la
6	FJ-1(i6302)	Conc. Pt. (lbs)	L	06-07-08	06-07-08	Top	576	201				n\la
7	FJ-1(i6232)	Conc. Pt. (lbs)	L	08-02-12	08-02-12	Top	966	337				n\la
8	FJ-1(i6390)	Conc. Pt. (lbs)	L	09-09-15	09-09-15	Top	966	430				n\la
9	FJ-1(i6231)	Conc. Pt. (lbs)	L	11-05-02	11-05-02	Top	966	431				n\la
10	FJ-1(i6233)	Conc. Pt. (lbs)	L	13-00-05	13-00-05	Top	966	348				n\la
11	FJ-1(i6214)	Conc. Pt. (lbs)	L	14-07-08	14-07-08	Top	966	348				n\la
12	FJ-1(i6329)	Conc. Pt. (lbs)	L	16-02-12	16-02-12	Top	966	348				n\la
13	FJ-1(i6239)	Conc. Pt. (lbs)	L	17-09-15	17-09-15	Top	966	348				n\la
14	FJ-1(i6303)	Conc. Pt. (lbs)	L	19-05-02	19-05-02	Top	719	290	21			n\la
15	FJ-1(i6303)_Unb_N	Conc. Pt. (lbs)	L	19-05-02	19-05-02	Top			21			n\la
16	FJ-1(i6303)_Unb_S	Conc. Pt. (lbs)	L	19-05-02	19-05-02	Top			21			n\la
17	FJ-1(i6303)_Unb_E	Conc. Pt. (lbs)	L	19-05-02	19-05-02	Top			21			n\la
18	FJ-1(i6303)_Unb_W	Conc. Pt. (lbs)	L	19-05-02	19-05-02	Top			21			n\la
19	FJ-2(i6408)	Conc. Pt. (lbs)	L	20-01-12	20-01-12	Top	371	671				n\la
20	FJ-2(i6225)	Conc. Pt. (lbs)	L	21-00-05	21-00-05	Top	575	151				n\la
21	FJ-2(i6340)	Conc. Pt. (lbs)	L	22-07-08	22-07-08	Top	742	194				n\la
22	FJ-2(i6251)	Conc. Pt. (lbs)	L	24-02-12	24-02-12	Top	742	194				n\la
23	FJ-2(i6353)	Conc. Pt. (lbs)	L	25-09-15	25-09-15	Top	742	171				n\la
24	FJ-2(i6345)	Conc. Pt. (lbs)	L	27-05-02	27-05-02	Top	726	161				n\la
25	FJ-2(i6330)	Conc. Pt. (lbs)	L	28-11-05	28-11-05	Top	745	161				n\la
26	FJ-2(i6388)	Conc. Pt. (lbs)	L	30-07-08	30-07-08	Top	764	179				n\la
27	FJ-2(i6400)	Conc. Pt. (lbs)	L	32-02-12	32-02-12	Top	742	192				n\la
28	FJ-2(i6257)	Conc. Pt. (lbs)	L	33-09-15	33-09-15	Top	681	181				n\la



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City, State, Zip:

Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	4432 ft-lbs	39.2%	100%	2	03-05-02
Neg. Moment	-5345 ft-lbs	54.8%	100%	1	08-00-00
End Shear	2309 lbs	37.5%	100%	2	01-05-04
Cont. Shear	3931 lbs	63.9%	100%	1	07-02-12
Total Load Deflection	L/999 (0.099")	n\a	n\a	2	04-01-08
Live Load Deflection	L/999 (0.082")	n\a	n\a	44	30-08-11
Total Neg. Defl.	L/999 (-0.029")	n\a	n\a	2	10-09-15
Max Defl.	0.099"	n\a	n\a	2	04-01-08
Span / Depth	11.1				
Conc. Load (B2)	1303 lbs	14.2%	100%		
Conc. Load (B3)	1314 lbs	14.3%	100%		
Conc. Load (B4)	913 lbs	9.9%	100%		

Bearing Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Column 8" x 3-1/2"	3615 lbs	17.8%	17.2%	Unspecified
B2	Column 16" x 3-1/2"	8775 lbs	21.6%	20.9%	Unspecified
B3	Column 16" x 3-1/2"	7291 lbs	18.0%	17.4%	Unspecified
B4	Column 16" x 3-1/2"	6014 lbs	14.8%	14.3%	Unspecified
B5	Wall/Plate 7" x 3-1/2"	1943 lbs	9.1%	10.6%	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 (1.5") 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.

Calculations assume unbraced length of Top: 01-06-07, Bottom: 34-06-00.

Disclosure

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



Single 3-1/2" x 9-1/4" VERSA-LAM® 1.7 2650 SP
1ST FLOOR\Dropped Beams\DB3(i6360) (Dropped Beam)

PASSED

BC CALC® Member Report

Dry | 4 spans | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 1ST FLOOR\Dropped Beams\DB3(i6360)

City, State, Zip:

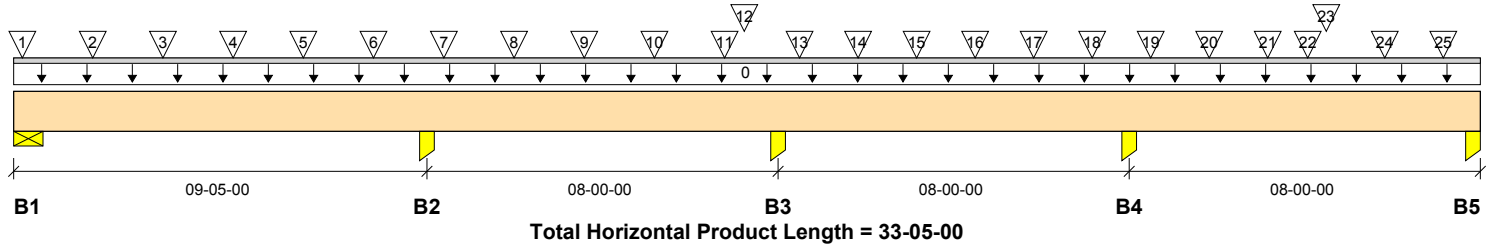
Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 8"	2070 / 98	685 / 0			
B2, 16"	6133 / 0	2373 / 0			
B3, 16"	5783 / 0	2662 / 0			
B4, 16"	6233 / 0	2191 / 0			
B5, 8"	2316 / 166	848 / 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	33-05-00	Top		9				00-00-00
1	FJ-12(i6383)	Conc. Pt. (lbs)	L	00-02-06	00-02-06	Top	203	51				n/a
2	FJ-6(i6380)	Conc. Pt. (lbs)	L	01-09-10	01-09-10	Top	984	357				n/a
3	FJ-6(i6344)	Conc. Pt. (lbs)	L	03-04-13	03-04-13	Top	951	322				n/a
4	FJ-6(i6376)	Conc. Pt. (lbs)	L	05-00-00	05-00-00	Top	951	322				n/a
5	FJ-6(i6215)	Conc. Pt. (lbs)	L	06-07-03	06-07-03	Top	951	322				n/a
6	FJ-6(i6271)	Conc. Pt. (lbs)	L	08-02-06	08-02-06	Top	951	322				n/a
7	FJ-6(i6298)	Conc. Pt. (lbs)	L	09-09-10	09-09-10	Top	950	361				n/a
8	FJ-6(i6309)	Conc. Pt. (lbs)	L	11-04-13	11-04-13	Top	950	452				n/a
9	FJ-6(i6364)	Conc. Pt. (lbs)	L	13-00-00	13-00-00	Top	950	666				n/a
10	FJ-6(i6321)	Conc. Pt. (lbs)	L	14-07-03	14-07-03	Top	950	353				n/a
11	FJ-6(i6221)	Conc. Pt. (lbs)	L	16-02-06	16-02-06	Top	607	194				n/a
12	FJ-6(i6279)	Conc. Pt. (lbs)	L	16-07-12	16-07-12	Top	508	936				n/a
13	FJ-4(i6332)	Conc. Pt. (lbs)	L	17-10-14	17-10-14	Top	898	224				n/a
14	FJ-4(i6378)	Conc. Pt. (lbs)	L	19-02-14	19-02-14	Top	923	288				n/a
15	FJ-4(i6205)	Conc. Pt. (lbs)	L	20-06-14	20-06-14	Top	923	302				n/a
16	FJ-4(i6399)	Conc. Pt. (lbs)	L	21-10-14	21-10-14	Top	923	302				n/a
17	FJ-4(i6362)	Conc. Pt. (lbs)	L	23-02-14	23-02-14	Top	923	302				n/a
18	FJ-4(i6339)	Conc. Pt. (lbs)	L	24-06-14	24-06-14	Top	923	302				n/a
19	FJ-4(i6274)	Conc. Pt. (lbs)	L	25-10-14	25-10-14	Top	922	301				n/a
20	FJ-4(i6262)	Conc. Pt. (lbs)	L	27-02-14	27-02-14	Top	923	302				n/a
21	FJ-4(i6405)	Conc. Pt. (lbs)	L	28-06-14	28-06-14	Top	827	267				n/a
22	FJ-9(i6216)	Conc. Pt. (lbs)	L	29-05-13	29-05-13	Top	218	298				n/a
23	FJ-4(i6304)	Conc. Pt. (lbs)	L	29-10-14	29-10-14	Top	715	295				n/a
24	FJ-4(i6281)	Conc. Pt. (lbs)	L	31-02-14	31-02-14	Top	923	302				n/a
25	FJ-4(i6338)	Conc. Pt. (lbs)	L	32-06-14	32-06-14	Top	923	302				n/a

Controls Summary

Value	% Allowable	Duration	Case	Location
Pos. Moment	4734 ft-lbs	41.8%	100%	6 03-04-13
Neg. Moment	-5687 ft-lbs	57.7%	100%	1 08-09-00
End Shear	2465 lbs	40.1%	100%	6 01-05-04
Cont. Shear	3812 lbs	62.0%	100%	1 07-11-12
Total Load Deflection	L/846 (0.125")	28.4%	n/a	6 04-03-10



Single 3-1/2" x 9-1/4" VERSA-LAM® 1.7 2650 SP

1ST FLOOR\Dropped Beams\DB3(i6360) (Dropped Beam)

PASSED

BC CALC® Member Report

Dry | 4 spans | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 1ST FLOOR\Dropped Beams\DB3(i6360)

City, State, Zip:

Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:

Controls Summary	Value	% Allowable	Duration	Case	Location
Live Load Deflection	L/999 (0.112")	n/a	n/a	8	04-06-00
Total Neg. Defl.	L/999 (-0.024")	n/a	n/a	6	10-10-14
Max Defl.	0.125"	8.3%	n/a	6	04-03-10
Span / Depth	11.4				
Conc. Load (B2)	1311 lbs	14.3%	100%		
Conc. Load (B3)	1122 lbs	12.2%	100%		
Conc. Load (B4)	1223 lbs	13.3%	100%		

Bearing Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 8" x 3-1/2"	2733 lbs	11.2%	13.0%	Unspecified
B2	Column 16" x 3-1/2"	8208 lbs	20.2%	19.5%	Unspecified
B3	Column 16" x 3-1/2"	7894 lbs	19.4%	18.8%	Unspecified
B4	Column 16" x 3-1/2"	8148 lbs	20.1%	19.4%	Unspecified
B5	Column 8" x 3-1/2"	3181 lbs	15.7%	15.1%	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.
- BC CALC® analysis is based on IBC 2015.
- Design based on Dry Service Condition.
- Calculations assume unbraced length of Top: 01-05-07, Bottom: 33-05-00.

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Single 3-1/2" x 9-1/4" VERSA-LAM® 1.7 2650 SP
1ST FLOOR\Dropped Beams\DB4(i6254) (Dropped Beam)

PASSED

BC CALC® Member Report

Dry | 3 spans | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 1ST FLOOR\Dropped Beams\DB4(i6254)

City, State, Zip:

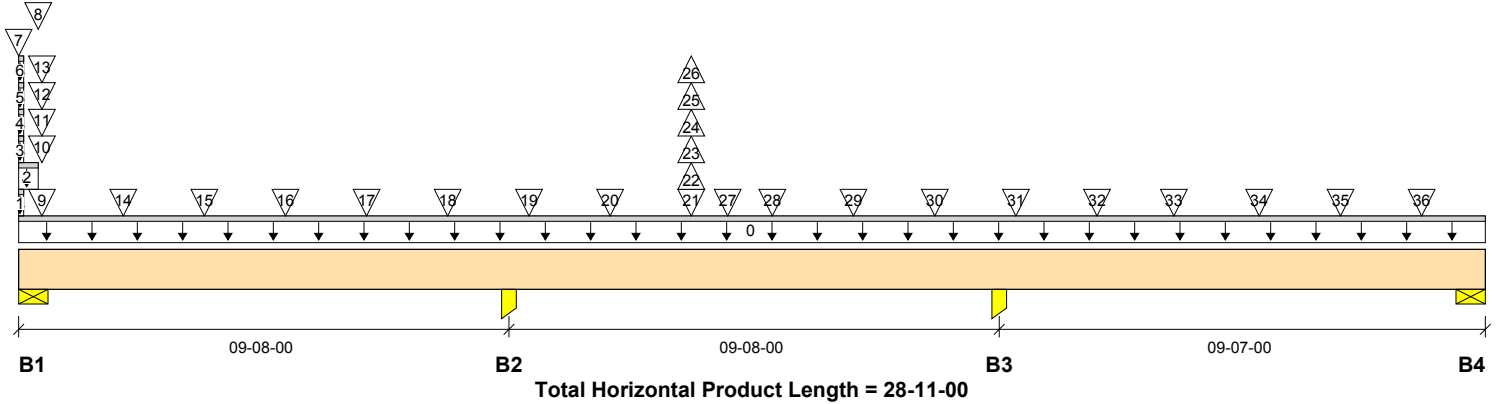
Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 8"	2193 / 188	1757 / 0	1080 / 0		
B2, 16"	6768 / 0	2401 / 0	0 / 4		
B3, 16"	6811 / 0	3976 / 0	0 / 1		
B4, 7"	2136 / 198	867 / 0	0 / 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	28-11-00	Top		9				00-00-00
1	Rim1(i6296)	Unf. Lin. (lb/ft)	L	00-00-00	00-01-03	Top		500	500			n/a
2	Rim1(i6296)	Unf. Lin. (lb/ft)	L	00-00-00	00-04-10	Top	2	54				n/a
3	Rim1(i6296)_Unb_N	Unf. Lin. (lb/ft)	L	00-00-00	00-01-03	Top			500			n/a
4	Rim1(i6296)_Unb_S	Unf. Lin. (lb/ft)	L	00-00-00	00-01-03	Top			500			n/a
5	Rim1(i6296)_Unb_E	Unf. Lin. (lb/ft)	L	00-00-00	00-01-03	Top			500			n/a
6	Rim1(i6296)_Unb_W	Unf. Lin. (lb/ft)	L	00-00-00	00-01-03	Top			500			n/a
7	Rim1(i6371)	Conc. Pt. (lbs)	L	00-00-00	00-00-00	Top	1	9				n/a
8	Rim1(i6296)	Conc. Pt. (lbs)	L	00-04-10	00-04-10	Top	0					n/a
9	FJ-1(i6302)	Conc. Pt. (lbs)	L	00-05-08	00-05-08	Top	390	1151	1031			n/a
10	FJ-1(i6302)_Unb_N	Conc. Pt. (lbs)	L	00-05-08	00-05-08	Top			1031			n/a
11	FJ-1(i6302)_Unb_S	Conc. Pt. (lbs)	L	00-05-08	00-05-08	Top			1031			n/a
12	FJ-1(i6302)_Unb_E	Conc. Pt. (lbs)	L	00-05-08	00-05-08	Top			1031			n/a
13	FJ-1(i6302)_Unb_W	Conc. Pt. (lbs)	L	00-05-08	00-05-08	Top			1031			n/a
14	FJ-1(i6232)	Conc. Pt. (lbs)	L	02-00-12	02-00-12	Top	959	290				n/a
15	FJ-1(i6390)	Conc. Pt. (lbs)	L	03-07-15	03-07-15	Top	959	296				n/a
16	FJ-1(i6231)	Conc. Pt. (lbs)	L	05-03-02	05-03-02	Top	959	272				n/a
17	FJ-1(i6233)	Conc. Pt. (lbs)	L	06-10-05	06-10-05	Top	959	268				n/a
18	FJ-1(i6214)	Conc. Pt. (lbs)	L	08-05-08	08-05-08	Top	959	268				n/a
19	FJ-1(i6329)	Conc. Pt. (lbs)	L	10-00-12	10-00-12	Top	959	268				n/a
20	FJ-1(i6239)	Conc. Pt. (lbs)	L	11-07-15	11-07-15	Top	959	268				n/a
21	FJ-1(i6303)	Conc. Pt. (lbs)	L	13-03-02	13-03-02	Top	695	185				n/a
22	FJ-1(i6303)	Conc. Pt. (lbs)	L	13-03-02	13-03-02	Top			-5			n/a
23	FJ-1(i6303)_Unb_N	Conc. Pt. (lbs)	L	13-03-02	13-03-02	Top			-5			n/a
24	FJ-1(i6303)_Unb_S	Conc. Pt. (lbs)	L	13-03-02	13-03-02	Top			-5			n/a
25	FJ-1(i6303)_Unb_E	Conc. Pt. (lbs)	L	13-03-02	13-03-02	Top			-5			n/a
26	FJ-1(i6303)_Unb_W	Conc. Pt. (lbs)	L	13-03-02	13-03-02	Top			-5			n/a
27	FJ-2(i6408)	Conc. Pt. (lbs)	L	13-11-12	13-11-12	Top	473	846				n/a



Single 3-1/2" x 9-1/4" VERSA-LAM® 1.7 2650 SP

PASSED

1ST FLOOR\Dropped Beams\DB4(i6254) (Dropped Beam)

BC CALC® Member Report

Dry | 3 spans | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 1ST FLOOR\Dropped Beams\DB4(i6254)

City, State, Zip:

Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live	Dead	Snow	Wind	Roof Live	Tributary
							100%	90%	115%	160%	125%	
28	FJ-2(i6225)	Conc. Pt. (lbs)	L	14-10-05	14-10-05	Top	734	333				n/a
29	FJ-2(i6340)	Conc. Pt. (lbs)	L	16-05-08	16-05-08	Top	947	429				n/a
30	FJ-2(i6251)	Conc. Pt. (lbs)	L	18-00-12	18-00-12	Top	947	429				n/a
31	FJ-2(i6353)	Conc. Pt. (lbs)	L	19-07-15	19-07-15	Top	947	576				n/a
32	FJ-2(i6345)	Conc. Pt. (lbs)	L	21-03-02	21-03-02	Top	986	985				n/a
33	FJ-2(i6330)	Conc. Pt. (lbs)	L	22-09-05	22-09-05	Top	1013	710				n/a
34	FJ-2(i6388)	Conc. Pt. (lbs)	L	24-05-08	24-05-08	Top	1039	402				n/a
35	FJ-2(i6400)	Conc. Pt. (lbs)	L	26-00-12	26-00-12	Top	947	344				n/a
36	FJ-2(i6257)	Conc. Pt. (lbs)	L	27-07-15	27-07-15	Top	870	331				n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	5847 ft-lbs	51.7%	100%	2	24-05-08
Neg. Moment	-7280 ft-lbs	70.1%	100%	1	20-00-00
End Shear	2844 lbs	46.2%	100%	2	27-06-12
Cont. Shear	4867 lbs	79.1%	100%	1	20-09-04
Total Load Deflection	L/663 (0.164")	36.2%	n/a	2	24-05-08
Live Load Deflection	L/806 (0.135")	44.7%	n/a	79	24-04-04
Total Neg. Defl.	L/999 (-0.038")	n/a	n/a	2	17-01-15
Max Defl.	0.164"	10.9%	n/a	2	24-05-08
Span / Depth	11.8				
Conc. Load (B2)	1227 lbs	13.4%	100%		
Conc. Load (B3)	1523 lbs	16.6%	100%		

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 8" x 3-1/2"	4153 lbs	17.0%	19.8%	Unspecified
B2	Column 16" x 3-1/2"	8716 lbs	21.5%	20.8%	Unspecified
B3	Column 16" x 3-1/2"	10527 lbs	25.9%	25.1%	Unspecified
B4	Wall/Plate 7" x 3-1/2"	3011 lbs	14.0%	16.4%	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.
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 Unbalanced snow loads determined from building geometry were used in selected product's verification.
 Design based on Dry Service Condition.
 Calculations assume unbraced length of Top: 01-06-07, Bottom: 28-00-00.

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Single 3-1/2" x 9-1/4" VERSA-LAM® 1.7 2650 SP
1ST FLOOR\Dropped Beams\DB4(i6499) (Dropped Beam)

PASSED

BC CALC® Member Report

Dry | 3 spans | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 1ST FLOOR\Dropped Beams\DB4(i6499)

City, State, Zip:

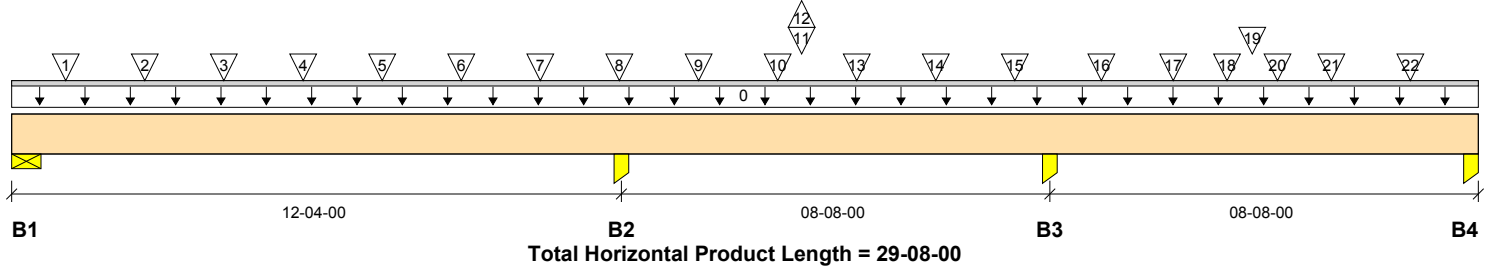
Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 8"	2355 / 79	601 / 0			
B2, 16"	6264 / 366	1694 / 0			
B3, 16"	5599 / 743	1776 / 0			
B4, 8"	1900 / 145	584 / 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	29-08-00	Top		9				00-00-00
1	FJ-8(i6505)	Conc. Pt. (lbs)	L	01-01-02	01-01-02	Top	731	183				n/a
2	FJ-8(i6507)	Conc. Pt. (lbs)	L	02-08-05	02-08-05	Top	776	194				n/a
3	FJ-8(i6500)	Conc. Pt. (lbs)	L	04-03-08	04-03-08	Top	774	193				n/a
4	FJ-8(i6512)	Conc. Pt. (lbs)	L	05-10-12	05-10-12	Top	776	194				n/a
5	FJ-8(i6513)	Conc. Pt. (lbs)	L	07-05-15	07-05-15	Top	774	193				n/a
6	FJ-8(i6497)	Conc. Pt. (lbs)	L	09-01-02	09-01-02	Top	774	193				n/a
7	FJ-8(i6510)	Conc. Pt. (lbs)	L	10-08-05	10-08-05	Top	774	193				n/a
8	FJ-8(i6511)	Conc. Pt. (lbs)	L	12-03-08	12-03-08	Top	774	193				n/a
9	FJ-8(i6508)	Conc. Pt. (lbs)	L	13-10-12	13-10-12	Top	776	301				n/a
10	FJ-8(i6503)	Conc. Pt. (lbs)	L	15-05-15	15-05-15	Top	613	208				n/a
11	FJ-7(i6263)	Conc. Pt. (lbs)	L	15-11-12	15-11-12	Top	153	25				n/a
12	FJ-7(i6263)	Conc. Pt. (lbs)	L	15-11-12	15-11-12	Top	-18					n/a
13	FJ-8(i6501)	Conc. Pt. (lbs)	L	17-01-02	17-01-02	Top	704	224				n/a
14	FJ-6(i6307)	Conc. Pt. (lbs)	L	18-08-05	18-08-05	Top	897	275				n/a
15	FJ-6(i6389)	Conc. Pt. (lbs)	L	20-03-08	20-03-08	Top	944	289				n/a
16	FJ-6(i6288)	Conc. Pt. (lbs)	L	22-00-08	22-00-08	Top	902	307				n/a
17	FJ-5(i6229)	Conc. Pt. (lbs)	L	23-05-15	23-05-15	Top	856	337				n/a
18	FJ-11(i6275)	Conc. Pt. (lbs)	L	24-07-00	24-07-00	Top	274	98				n/a
19	FJ-11(i6245)	Conc. Pt. (lbs)	L	25-01-02	25-01-02	Top	372	93				n/a
20	FJ-11(i6275)	Conc. Pt. (lbs)	L	25-07-04	25-07-04	Top	274	98				n/a
21	FJ-5(i6293)	Conc. Pt. (lbs)	L	26-08-05	26-08-05	Top	901	278				n/a
22	FJ-5(i6260)	Conc. Pt. (lbs)	L	28-03-08	28-03-08	Top	985	308				n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	6814 ft-lbs	60.2%	100%	3	05-10-12
Neg. Moment	-7622 ft-lbs	75.7%	100%	1	11-08-00
End Shear	2607 lbs	42.4%	100%	3	01-05-04
Cont. Shear	3970 lbs	64.5%	100%	1	10-10-12
Total Load Deflection	L/414 (0.34")	58.0%	n/a	3	05-09-09
Live Load Deflection	L/493 (0.286")	73.0%	n/a	11	05-09-09
Total Neg. Defl.	L/999 (-0.105")	n/a	n/a	3	15-10-05
Max Defl.	0.34"	22.7%	n/a	3	05-09-09



Single 3-1/2" x 9-1/4" VERSA-LAM® 1.7 2650 SP

1ST FLOOR\Dropped Beams\DB4(i6499) (Dropped Beam)

PASSED

BC CALC® Member Report

Dry | 3 spans | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 1ST FLOOR\Dropped Beams\DB4(i6499)

City, State, Zip:

Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:

Controls Summary	Value	% Allowable	Duration	Case	Location
Span / Depth	15.2				
Conc. Load (B2)	967 lbs	10.5%	100%		

Bearing Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 8" x 3-1/2"	3028 lbs	12.4%	14.4%	Unspecified
B2	Column 16" x 3-1/2"	7520 lbs	18.5%	17.9%	Unspecified
B3	Column 16" x 3-1/2"	6959 lbs	17.1%	16.6%	Unspecified
B4	Column 8" x 3-1/2"	2647 lbs	13.0%	12.6%	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 (1.5") Maximum Total load deflection criteria.
- BC CALC® analysis is based on IBC 2015.
- Design based on Dry Service Condition.
- Calculations assume unbraced length of Top: 01-07-03, Bottom: 29-08-00.

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®,



Single 3-1/2" x 9-1/4" VERSA-LAM® 1.7 2650 SP
1ST FLOOR\Dropped Beams\DB5(i6292) (Dropped Beam)

PASSED

BC CALC® Member Report

Dry | 3 spans | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 1ST FLOOR\Dropped Beams\DB5(i6292)

City, State, Zip:

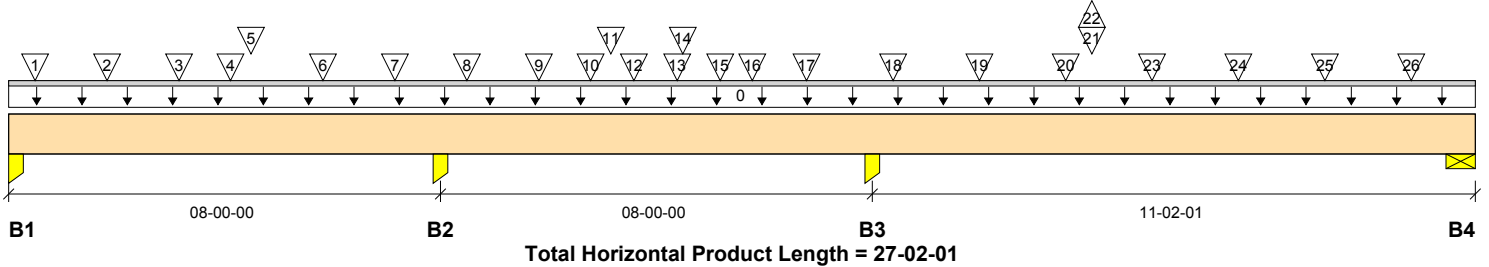
Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 8"	2577 / 154	898 / 0			
B2, 16"	6587 / 933	2289 / 0			
B3, 16"	7855 / 400	3006 / 0			
B4, 7"	2877 / 93	1027 / 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	27-02-01	Top		9				00-00-00
1	FJ-4(i6290)	Conc. Pt. (lbs)	L	00-05-14	00-05-14	Top	922	301				n/a
2	FJ-4(i6222)	Conc. Pt. (lbs)	L	01-09-14	01-09-14	Top	923	302				n/a
3	FJ-4(i6335)	Conc. Pt. (lbs)	L	03-01-14	03-01-14	Top	837	270				n/a
4	FJ-9(i6384)	Conc. Pt. (lbs)	L	04-01-05	04-01-05	Top	218	288				n/a
5	FJ-3(i6256)	Conc. Pt. (lbs)	L	04-05-14	04-05-14	Top	765	260				n/a
6	FJ-3(i6284)	Conc. Pt. (lbs)	L	05-09-14	05-09-14	Top	1017	359				n/a
7	FJ-3(i6250)	Conc. Pt. (lbs)	L	07-01-14	07-01-14	Top	1017	530				n/a
8	FJ-3(i6407)	Conc. Pt. (lbs)	L	08-05-14	08-05-14	Top	1016	315				n/a
9	FJ-3(i6350)	Conc. Pt. (lbs)	L	09-09-14	09-09-14	Top	974	304				n/a
10	FJ-12(i6317)	Conc. Pt. (lbs)	L	10-09-06	10-09-06	Top	180	45				n/a
11	FJ-8(i6326)	Conc. Pt. (lbs)	L	11-01-14	11-01-14	Top	489	164				n/a
12	FJ-12(i6394)	Conc. Pt. (lbs)	L	11-07-00	11-07-00	Top	162	41				n/a
13	FJ-12(i6277)	Conc. Pt. (lbs)	L	12-04-10	12-04-10	Top	164	41				n/a
14	FJ-8(i6235)	Conc. Pt. (lbs)	L	12-05-14	12-05-14	Top	482	160				n/a
15	FJ-12(i6306)	Conc. Pt. (lbs)	L	13-02-03	13-02-03	Top	243	61				n/a
16	FJ-10-2(i6270)	Conc. Pt. (lbs)	L	13-09-05	13-09-05	Top	374	313				n/a
17	FJ-4(i6324)	Conc. Pt. (lbs)	L	14-09-06	14-09-06	Top	970	297				n/a
18	FJ-4(i6347)	Conc. Pt. (lbs)	L	16-04-10	16-04-10	Top	1106	345				n/a
19	FJ-4(i6282)	Conc. Pt. (lbs)	L	17-11-13	17-11-13	Top	1106	345				n/a
20	FJ-4(i6314)	Conc. Pt. (lbs)	L	19-07-00	19-07-00	Top	975	519				n/a
21	FJ-7(i6263)	Conc. Pt. (lbs)	L	20-00-13	20-00-13	Top	144	272				n/a
22	FJ-7(i6263)	Conc. Pt. (lbs)	L	20-00-13	20-00-13	Top	-24					n/a
23	FJ-4(i6238)	Conc. Pt. (lbs)	L	21-02-03	21-02-03	Top	1049	421				n/a
24	FJ-4(i6392)	Conc. Pt. (lbs)	L	22-09-06	22-09-06	Top	1106	345				n/a
25	FJ-4(i6267)	Conc. Pt. (lbs)	L	24-04-10	24-04-10	Top	1106	345				n/a
26	FJ-4(i6269)	Conc. Pt. (lbs)	L	25-11-13	25-11-13	Top	995	323				n/a

Controls Summary

Value	% Allowable	Duration	Case	Location
Pos. Moment	8832 ft-lbs	78.1%	100%	3 22-09-06
Neg. Moment	-9514 ft-lbs	92.9%	100%	1 16-08-00
End Shear	3701 lbs	60.2%	100%	3 25-09-13
Cont. Shear	5368 lbs	87.3%	100%	1 17-05-04



Single 3-1/2" x 9-1/4" VERSA-LAM® 1.7 2650 SP

1ST FLOOR\Dropped Beams\DB5(i6292) (Dropped Beam)

PASSED

BC CALC® Member Report

Dry | 3 spans | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 1ST FLOOR\Dropped Beams\DB5(i6292)

City, State, Zip:

Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:

Controls Summary	Value	% Allowable	Duration	Case	Location
Total Load Deflection	L/354 (0.361")	67.8%	n/a	3	21-11-12
Live Load Deflection	L/474 (0.27")	75.9%	n/a	11	21-11-12
Total Neg. Defl.	L/999 (-0.114")	n/a	n/a	3	12-11-01
Max Defl.	0.361"	24.1%	n/a	3	21-11-12
Span / Depth	13.8				
Conc. Load (B2)	1331 lbs	14.5%	100%		
Conc. Load (B3)	1451 lbs	15.8%	100%		

Bearing Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Column 8" x 3-1/2"	3710 lbs	18.3%	17.7%	Unspecified
B2	Column 16" x 3-1/2"	8577 lbs	21.1%	20.4%	Unspecified
B3	Column 16" x 3-1/2"	10332 lbs	25.4%	24.6%	Unspecified
B4	Wall/Plate 7" x 3-1/2"	3998 lbs	18.7%	21.8%	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.
- BC CALC® analysis is based on IBC 2015.
- Design based on Dry Service Condition.
- Calculations assume unbraced length of Top: 01-05-07, Bottom: 26-07-01.

Disclosure

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



Single 3-1/2" x 9-1/4" VERSA-LAM® 1.7 2650 SP
1ST FLOOR\Dropped Beams\DB5(i6498) (Dropped Beam)

PASSED

BC CALC® Member Report

Dry | 3 spans | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 1ST FLOOR\Dropped Beams\DB5(i6498)

City, State, Zip:

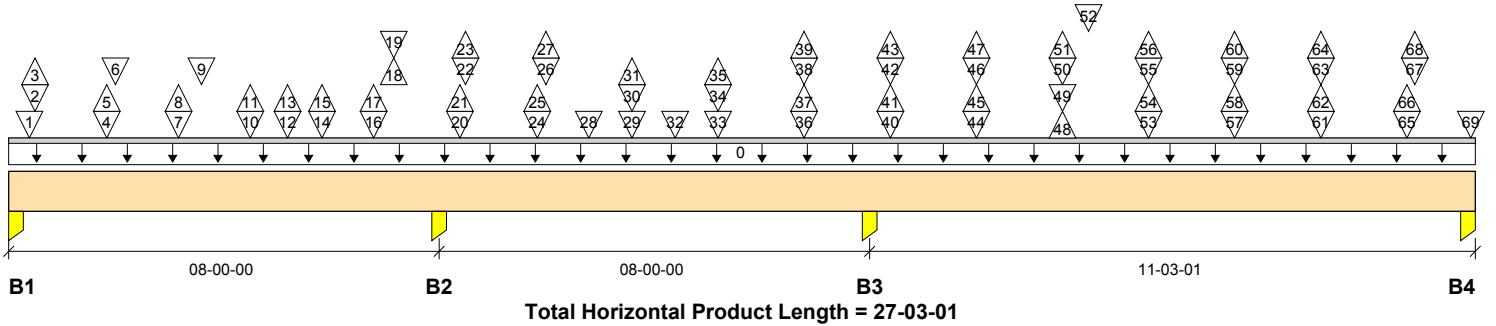
Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 8"	1544 / 363	291 / 0			
B2, 16"	3588 / 1235	474 / 0			
B3, 16"	4366 / 1036	1508 / 0			
B4, 16"	1827 / 533	693 / 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	27-03-01	Top		9				00-00-00
1	FJ-12(i6367)	Conc. Pt. (lbs)	L	00-04-10	00-04-10	Top	351	88				n/a
2	FJ-4(i6290)	Conc. Pt. (lbs)	L	00-05-14	00-05-14	Top	248	22				n/a
3	FJ-4(i6290)	Conc. Pt. (lbs)	L	00-05-14	00-05-14	Top	-108					n/a
4	FJ-4(i6262)	Conc. Pt. (lbs)	L	01-09-14	01-09-14	Top	246	22				n/a
5	FJ-4(i6262)	Conc. Pt. (lbs)	L	01-09-14	01-09-14	Top	-107					n/a
6	FJ-12(i6404)	Conc. Pt. (lbs)	L	01-11-13	01-11-13	Top	349	87				n/a
7	FJ-4(i6335)	Conc. Pt. (lbs)	L	03-01-14	03-01-14	Top	246	27				n/a
8	FJ-4(i6335)	Conc. Pt. (lbs)	L	03-01-14	03-01-14	Top	-92					n/a
9	FJ-12(i6404)	Conc. Pt. (lbs)	L	03-07-00	03-07-00	Top	349	87				n/a
10	FJ-3(i6256)	Conc. Pt. (lbs)	L	04-05-14	04-05-14	Top	248	23				n/a
11	FJ-3(i6256)	Conc. Pt. (lbs)	L	04-05-14	04-05-14	Top	-91					n/a
12	FJ-8(i6505)	Conc. Pt. (lbs)	L	05-02-03	05-02-03	Top	300	71				n/a
13	FJ-8(i6505)	Conc. Pt. (lbs)	L	05-02-03	05-02-03	Top	-17					n/a
14	FJ-3(i6284)	Conc. Pt. (lbs)	L	05-09-14	05-09-14	Top	248	2				n/a
15	FJ-3(i6284)	Conc. Pt. (lbs)	L	05-09-14	05-09-14	Top	-141					n/a
16	FJ-8(i6507)	Conc. Pt. (lbs)	L	06-09-06	06-09-06	Top	300	70				n/a
17	FJ-8(i6507)	Conc. Pt. (lbs)	L	06-09-06	06-09-06	Top	-21					n/a
18	FJ-3(i6250)	Conc. Pt. (lbs)	L	07-01-14	07-01-14	Top	-141	-39				n/a
19	FJ-3(i6250)	Conc. Pt. (lbs)	L	07-01-14	07-01-14	Top	248					n/a
20	FJ-8(i6500)	Conc. Pt. (lbs)	L	08-04-10	08-04-10	Top	303	71				n/a
21	FJ-8(i6500)	Conc. Pt. (lbs)	L	08-04-10	08-04-10	Top	-20					n/a
22	FJ-3(i6407)	Conc. Pt. (lbs)	L	08-05-14	08-05-14	Top	250	14				n/a
23	FJ-3(i6407)	Conc. Pt. (lbs)	L	08-05-14	08-05-14	Top	-142					n/a
24	FJ-3(i6350)	Conc. Pt. (lbs)	L	09-09-14	09-09-14	Top	213	5				n/a
25	FJ-3(i6350)	Conc. Pt. (lbs)	L	09-09-14	09-09-14	Top	-141					n/a
26	FJ-8(i6512)	Conc. Pt. (lbs)	L	09-11-13	09-11-13	Top	300	70				n/a
27	FJ-8(i6512)	Conc. Pt. (lbs)	L	09-11-13	09-11-13	Top	-21					n/a
28	FJ-12(i6317)	Conc. Pt. (lbs)	L	10-09-06	10-09-06	Top	180	45				n/a
29	FJ-12(i6394)	Conc. Pt. (lbs)	L	11-07-00	11-07-00	Top	164	41				n/a
30	FJ-8(i6513)	Conc. Pt. (lbs)	L	11-07-00	11-07-00	Top	303	71				n/a



Single 3-1/2" x 9-1/4" VERSA-LAM® 1.7 2650 SP

PASSED

1ST FLOOR\Dropped Beams\DB5(i6498) (Dropped Beam)

BC CALC® Member Report

Dry | 3 spans | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 1ST FLOOR\Dropped Beams\DB5(i6498)

City, State, Zip:

Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live	Dead	Snow	Wind	Roof Live	Tributary
							100%	90%	115%	160%	125%	
31	FJ-8(i6513)	Conc. Pt. (lbs)	L	11-07-00	11-07-00	Top	-20					n/a
32	FJ-12(i6277)	Conc. Pt. (lbs)	L	12-04-10	12-04-10	Top	162	41				n/a
33	FJ-12(i6306)	Conc. Pt. (lbs)	L	13-02-03	13-02-03	Top	246	62				n/a
34	FJ-8(i6497)	Conc. Pt. (lbs)	L	13-02-03	13-02-03	Top	303	71				n/a
35	FJ-8(i6497)	Conc. Pt. (lbs)	L	13-02-03	13-02-03	Top	-20					n/a
36	FJ-4(i6324)	Conc. Pt. (lbs)	L	14-09-06	14-09-06	Top	298	37				n/a
37	FJ-4(i6324)	Conc. Pt. (lbs)	L	14-09-06	14-09-06	Top	-106					n/a
38	FJ-8(i6510)	Conc. Pt. (lbs)	L	14-09-06	14-09-06	Top	303	71				n/a
39	FJ-8(i6510)	Conc. Pt. (lbs)	L	14-09-06	14-09-06	Top	-20					n/a
40	FJ-4(i6347)	Conc. Pt. (lbs)	L	16-04-10	16-04-10	Top	298	29				n/a
41	FJ-4(i6347)	Conc. Pt. (lbs)	L	16-04-10	16-04-10	Top	-130					n/a
42	FJ-8(i6511)	Conc. Pt. (lbs)	L	16-04-10	16-04-10	Top	303	71				n/a
43	FJ-8(i6511)	Conc. Pt. (lbs)	L	16-04-10	16-04-10	Top	-20					n/a
44	FJ-4(i6347)	Conc. Pt. (lbs)	L	17-11-13	17-11-13	Top	298	29				n/a
45	FJ-4(i6347)	Conc. Pt. (lbs)	L	17-11-13	17-11-13	Top	-130					n/a
46	FJ-8(i6508)	Conc. Pt. (lbs)	L	17-11-13	17-11-13	Top	301	199				n/a
47	FJ-8(i6508)	Conc. Pt. (lbs)	L	17-11-13	17-11-13	Top	-20					n/a
48	FJ-4(i6314)	Conc. Pt. (lbs)	L	19-07-00	19-07-00	Top	-130	-21				n/a
49	FJ-4(i6314)	Conc. Pt. (lbs)	L	19-07-00	19-07-00	Top	194					n/a
50	FJ-8(i6503)	Conc. Pt. (lbs)	L	19-07-00	19-07-00	Top	196	113				n/a
51	FJ-8(i6503)	Conc. Pt. (lbs)	L	19-07-00	19-07-00	Top	-20					n/a
52	FJ-7(i6263)	Conc. Pt. (lbs)	L	20-00-13	20-00-13	Top	423	598				n/a
53	FJ-4(i6238)	Conc. Pt. (lbs)	L	21-02-03	21-02-03	Top	252	7				n/a
54	FJ-4(i6238)	Conc. Pt. (lbs)	L	21-02-03	21-02-03	Top	-130					n/a
55	FJ-8(i6501)	Conc. Pt. (lbs)	L	21-02-03	21-02-03	Top	256	94				n/a
56	FJ-8(i6501)	Conc. Pt. (lbs)	L	21-02-03	21-02-03	Top	-20					n/a
57	FJ-4(i6392)	Conc. Pt. (lbs)	L	22-09-06	22-09-06	Top	298	29				n/a
58	FJ-4(i6392)	Conc. Pt. (lbs)	L	22-09-06	22-09-06	Top	-130					n/a
59	FJ-6(i6307)	Conc. Pt. (lbs)	L	22-09-06	22-09-06	Top	309	107				n/a
60	FJ-6(i6307)	Conc. Pt. (lbs)	L	22-09-06	22-09-06	Top	-50					n/a
61	FJ-4(i6392)	Conc. Pt. (lbs)	L	24-04-10	24-04-10	Top	298	29				n/a
62	FJ-4(i6392)	Conc. Pt. (lbs)	L	24-04-10	24-04-10	Top	-130					n/a
63	FJ-6(i6389)	Conc. Pt. (lbs)	L	24-04-10	24-04-10	Top	323	112				n/a
64	FJ-6(i6389)	Conc. Pt. (lbs)	L	24-04-10	24-04-10	Top	-53					n/a
65	FJ-4(i6269)	Conc. Pt. (lbs)	L	25-11-13	25-11-13	Top	280	63				n/a
66	FJ-4(i6269)	Conc. Pt. (lbs)	L	25-11-13	25-11-13	Top	-116					n/a
67	FJ-6(i6288)	Conc. Pt. (lbs)	L	26-01-09	26-01-09	Top	309	185				n/a
68	FJ-6(i6288)	Conc. Pt. (lbs)	L	26-01-09	26-01-09	Top	-51					n/a
69	Bk1(i6461)	Conc. Pt. (lbs)	L	27-02-01	27-02-01	Top		8				n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	4605 ft-lbs	40.7%	100%	3	21-02-03
Neg. Moment	-5017 ft-lbs	48.6%	100%	6	16-08-00
End Shear	1730 lbs	28.1%	100%	3	25-01-13
Cont. Shear	2964 lbs	48.2%	100%	6	17-05-04
Total Load Deflection	L/714 (0.168")	33.6%	n/a	3	21-05-13
Live Load Deflection	L/999 (0.124")	n/a	n/a	11	21-05-13
Total Neg. Defl.	L/999 (-0.069")	n/a	n/a	3	12-08-03
Max Defl.	0.168"	11.2%	n/a	3	21-05-13



Single 3-1/2" x 9-1/4" VERSA-LAM® 1.7 2650 SP

PASSED

1ST FLOOR\Dropped Beams\DB5(i6498) (Dropped Beam)

BC CALC® Member Report

Dry | 3 spans | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 1ST FLOOR\Dropped Beams\DB5(i6498)

City, State, Zip:

Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:

Controls Summary

	Value	% Allowable	Duration	Case	Location
Span / Depth	13.0				
Conc. Load (B2)	638 lbs	6.9%	100%		
Conc. Load (B3)	701 lbs	7.6%	100%		
Conc. Load (B4)	837 lbs	9.1%	100%		

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material	
B1	Column	8" x 3-1/2"	1994 lbs	9.8%	9.5%	Unspecified
B1	Uplift		108 lbs			
B2	Column	16" x 3-1/2"	3928 lbs	9.7%	9.4%	Unspecified
B2	Uplift		796 lbs			
B3	Column	16" x 3-1/2"	5620 lbs	13.8%	13.4%	Unspecified
B4	Column	16" x 3-1/2"	2594 lbs	6.4%	6.2%	Unspecified

Cautions

Uplift of -796 lbs found at bearing B2.

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.
- Design based on Dry Service Condition.
- Calculations assume unbraced length of Top: 01-06-05, Bottom: 27-03-01.

Disclosure

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



Single 3-1/2" x 9-1/4" VERSA-LAM® 1.7 2650 SP
1ST FLOOR\Dropped Beams\DB6(i6489) (Dropped Beam)

PASSED

BC CALC® Member Report

Dry | 2 spans | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 1ST FLOOR\Dropped Beams\DB6(i6489)

City, State, Zip:

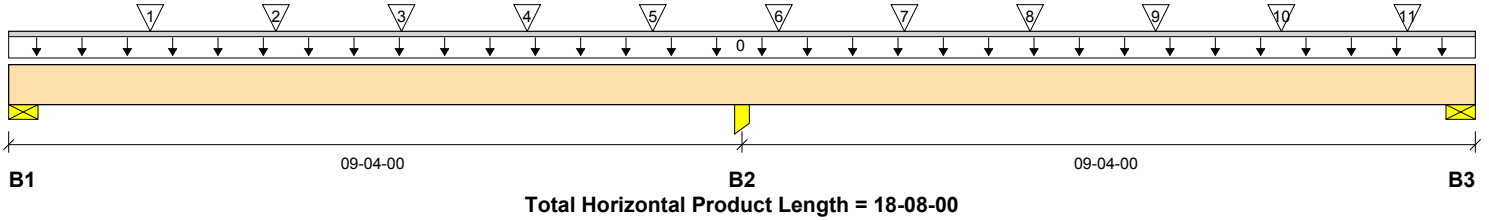
Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 8"	1829 / 207	584 / 0			
B2, 16"	6243 / 0	2278 / 0			
B3, 8"	2237 / 229	886 / 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	18-08-00	Top		9				00-00-00
1	FJ-6(i6481)	Conc. Pt. (lbs)	L	01-09-10	01-09-10	Top	954	329				n/a
2	FJ-6(i6483)	Conc. Pt. (lbs)	L	03-04-13	03-04-13	Top	902	294				n/a
3	FJ-6(i6485)	Conc. Pt. (lbs)	L	05-00-00	05-00-00	Top	902	294				n/a
4	FJ-6(i6487)	Conc. Pt. (lbs)	L	06-07-03	06-07-03	Top	902	294				n/a
5	FJ-6(i6492)	Conc. Pt. (lbs)	L	08-02-06	08-02-06	Top	902	294				n/a
6	FJ-6(i6486)	Conc. Pt. (lbs)	L	09-09-10	09-09-10	Top	902	294				n/a
7	FJ-6(i6493)	Conc. Pt. (lbs)	L	11-04-13	11-04-13	Top	902	294				n/a
8	FJ-6(i6479)	Conc. Pt. (lbs)	L	13-00-00	13-00-00	Top	902	465				n/a
9	FJ-6(i6484)	Conc. Pt. (lbs)	L	14-07-03	14-07-03	Top	902	315				n/a
10	FJ-6(i6491)	Conc. Pt. (lbs)	L	16-02-06	16-02-06	Top	902	327				n/a
11	FJ-6(i6478)	Conc. Pt. (lbs)	L	17-09-10	17-09-10	Top	801	372				n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	4494 ft-lbs	39.7%	100%	3	14-07-03
Neg. Moment	-5032 ft-lbs	46.3%	100%	1	08-08-00
End Shear	2301 lbs	37.4%	100%	2	01-05-04
Cont. Shear	3459 lbs	56.2%	100%	1	07-10-12
Total Load Deflection	L/999 (0.113")	n/a	n/a	3	14-03-09
Live Load Deflection	L/999 (0.1")	n/a	n/a	5	04-04-13
Total Neg. Defl.	L/999 (-0.022")	n/a	n/a	3	07-10-12
Max Defl.	0.113"	n/a	n/a	3	14-03-09
Span / Depth	11.3				
Conc. Load (B2)	1196 lbs	13.0%	100%		

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 8" x 3-1/2"	2314 lbs	9.4%	11.0%	Unspecified
B2	Column 16" x 3-1/2"	8458 lbs	20.8%	20.1%	Unspecified
B3	Wall/Plate 8" x 3-1/2"	3060 lbs	12.5%	14.6%	Unspecified



Single 3-1/2" x 9-1/4" VERSA-LAM® 1.7 2650 SP

PASSED

1ST FLOOR\Dropped Beams\DB6(i6489) (Dropped Beam)

BC CALC® Member Report

Dry | 2 spans | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 1ST FLOOR\Dropped Beams\DB6(i6489)

City, State, Zip:

Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

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.
- Design based on Dry Service Condition.
- Calculations assume unbraced length of Top: 01-05-07, Bottom: 18-00-00.

Disclosure

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



BC CALC® Member Report

Dry | 2 spans | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Dropped Beams\BM1-2(i6474)

City, State, Zip:

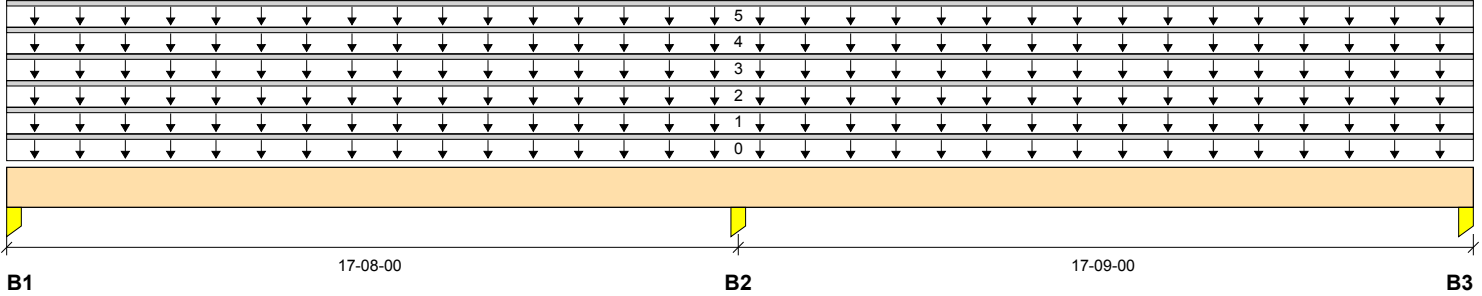
Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 11"		1699 / 0	1672 / 0		
B2, 22"		4870 / 0	4616 / 0		
B3, 22"		1832 / 0	1786 / 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	35-05-00	Top		14				00-00-00
1	User Load	Unf. Lin. (lb/ft)	L	00-00-00	35-05-00	Top		223	223			n\A
2	User Load_Unb_N	Unf. Lin. (lb/ft)	L	00-00-00	35-05-00	Top			223			n\A
3	User Load_Unb_S	Unf. Lin. (lb/ft)	L	00-00-00	35-05-00	Top			223			n\A
4	User Load_Unb_E	Unf. Lin. (lb/ft)	L	00-00-00	35-05-00	Top			223			n\A
5	User Load_Unb_W	Unf. Lin. (lb/ft)	L	00-00-00	35-05-00	Top			223			n\A

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	9268 ft-lbs	27.8%	115%	5	07-02-14
Neg. Moment	-11997 ft-lbs	35.9%	115%	1	16-09-00
End Shear	2355 lbs	22.0%	115%	5	02-01-00
Cont. Shear	3875 lbs	36.2%	115%	1	15-07-00
Total Load Deflection	L/845 (0.239")	28.4%	n\A	5	08-00-08
Live Load Deflection	L/999 (0.121")	n\A	n\A	12	08-00-08
Max Defl.	0.239"	15.9%	n\A	5	08-00-08
Span / Depth	13.7				
Dist. Load (B2)	446 lb/ft	1.4%	100%		
Dist. Load (B3)	446 lb/ft	1.4%	100%		

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Column 11" x 3-1/2"	3314 lbs	11.9%	11.5%	Unspecified
B2	Column 22" x 3-1/2"	9448 lbs	16.9%	16.4%	Unspecified
B3	Column 22" x 3-1/2"	3576 lbs	6.4%	6.2%	Unspecified



BC CALC® Member Report

Dry | 2 spans | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Dropped Beams\BM1-2(i6474)

City, State, Zip:

Specifier:

Customer: Marketplace Builders

Designer:

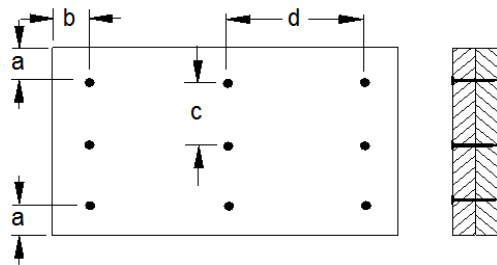
Code reports: ESR-1040

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.
- Calculations assume member is fully braced.

Connection Diagram: Full Length of Member



a minimum = 2" c = 5"
b minimum = 3" d = 24"

Calculated Side Load = 0.0 lb/ft
Connectors are: 3-1/4 in. Pneumatic Gun Nails

Disclosure

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



Triple 1-3/4" x 14" VERSA-LAM® 2.0 3100 SP
2ND FLOOR\Dropped Beams\BM2-3(i5743) (Dropped Beam)

PASSED

BC CALC® Member Report

Dry | 3 spans | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Dropped Beams\BM2-3(i5743)

City, State, Zip:

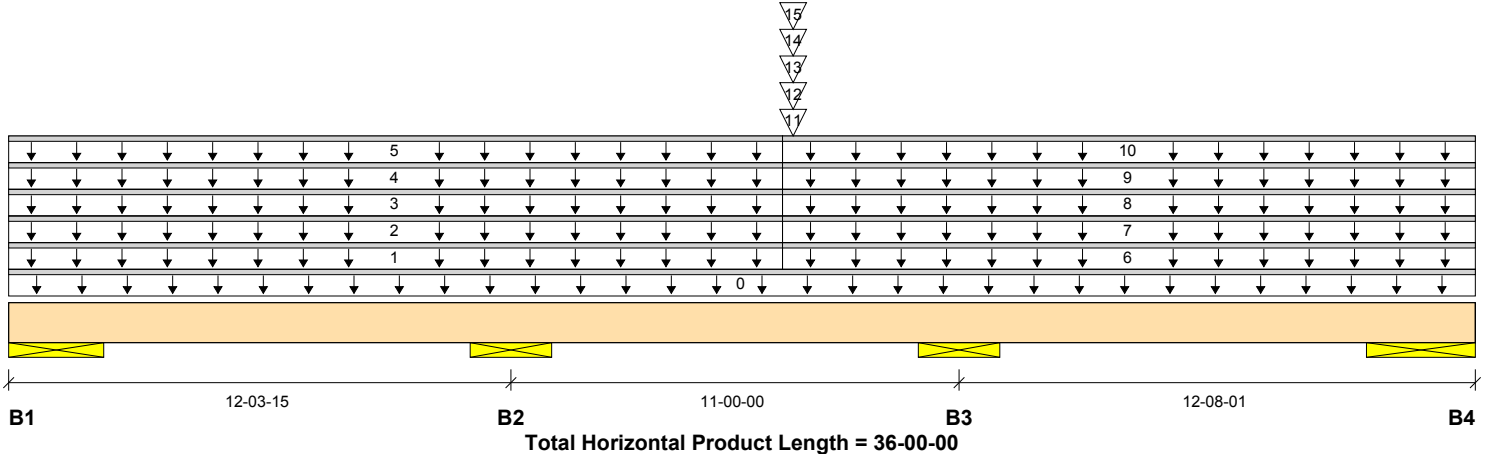
Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 28"		2039 / 0	1913 / 0		
B2, 24"		4884 / 0	4865 / 0		
B3, 24"		3673 / 0	3581 / 0		
B4, 32-1/16"		679 / 0	536 / 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	36-00-00	Top		21				00-00-00
1	User Load	Unf. Lin. (lb/ft)	L	00-00-00	18-11-15	Top		320	320			n/a
2	User Load_Unb_N	Unf. Lin. (lb/ft)	L	00-00-00	18-11-15	Top			320			n/a
3	User Load_Unb_S	Unf. Lin. (lb/ft)	L	00-00-00	18-11-15	Top			320			n/a
4	User Load_Unb_E	Unf. Lin. (lb/ft)	L	00-00-00	18-11-15	Top			320			n/a
5	User Load_Unb_W	Unf. Lin. (lb/ft)	L	00-00-00	18-11-15	Top			320			n/a
6	User Load	Unf. Lin. (lb/ft)	L	18-11-15	36-00-00	Top		100	100			n/a
7	User Load_Unb_N	Unf. Lin. (lb/ft)	L	18-11-15	36-00-00	Top			100			n/a
8	User Load_Unb_S	Unf. Lin. (lb/ft)	L	18-11-15	36-00-00	Top			100			n/a
9	User Load_Unb_E	Unf. Lin. (lb/ft)	L	18-11-15	36-00-00	Top			100			n/a
10	User Load_Unb_W	Unf. Lin. (lb/ft)	L	18-11-15	36-00-00	Top			100			n/a
11	User Load	Conc. Pt. (lbs)	L	19-03-01	19-03-01	Top		2730	2730			n/a
12	User Load_Unb_N	Conc. Pt. (lbs)	L	19-03-01	19-03-01	Top			2730			n/a
13	User Load_Unb_S	Conc. Pt. (lbs)	L	19-03-01	19-03-01	Top			2730			n/a
14	User Load_Unb_E	Conc. Pt. (lbs)	L	19-03-01	19-03-01	Top			2730			n/a
15	User Load_Unb_W	Conc. Pt. (lbs)	L	19-03-01	19-03-01	Top			2730			n/a

Controls Summary

Value	% Allowable	Duration	Case	Location
Pos. Moment	8811 ft-lbs	99.0%	115%	8 19-03-01
Neg. Moment	-7721 ft-lbs	85.7%	115%	8 13-03-15
End Shear	1639 lbs	10.2%	115%	8 03-06-00
Cont. Shear	5011 lbs	31.2%	115%	1 21-01-15
Total Load Deflection	L/999 (0.034")	n/a	n/a	8 18-03-07
Live Load Deflection	L/999 (0.018")	n/a	n/a	17 18-03-07
Total Neg. Defl.	L/999 (-0.012")	n/a	n/a	8 25-06-10
Max Defl.	0.034"	n/a	n/a	8 18-03-07
Span / Depth	8.6			



Triple 1-3/4" x 14" VERSA-LAM® 2.0 3100 SP
2ND FLOOR\Dropped Beams\BM2-3(i5743) (Dropped Beam)

PASSED

BC CALC® Member Report

Dry | 3 spans | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Dropped Beams\BM2-3(i5743)

City, State, Zip:

Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:

Controls Summary	Value	% Allowable	Duration	Case	Location
Dist. Load (B1)	640 lb/ft	1.4%	100%		
Dist. Load (B2)	640 lb/ft	1.4%	100%		
Dist. Load (B3)	200 lb/ft	0.4%	100%		
Dist. Load (B4)	200 lb/ft	0.4%	100%		

Bearing Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 28" x 5-1/4"	3954 lbs	6.3%	3.6%	Unspecified
B2	Wall/Plate 24" x 5-1/4"	9606 lbs	17.9%	10.2%	Unspecified
B3	Wall/Plate 24" x 5-1/4"	7086 lbs	13.2%	7.5%	Unspecified
B4	Wall/Plate 32-1/16" x 5-1/4"	1308 lbs	1.8%	1.0%	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.

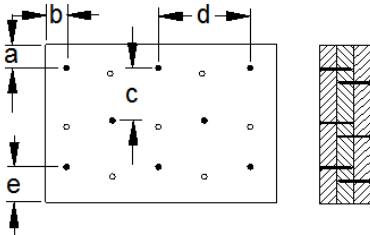
BC CALC® analysis is based on IBC 2015.

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

Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 36-00-00, Bottom: 35-06-08.

Connection Diagram: Full Length of Member



a minimum = 2"

c = 4-1/2"

b minimum = 3"

d = 12"

e minimum = 3"

Calculated Side Load = 0.0 lb/ft

Nailing applies to both sides of the member

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

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Double 1-3/4" x 14" VERSA-LAM® 2.0 3100 SP
2ND FLOOR\Dropped Beams\BM3-2(i6480) (Dropped Beam)

PASSED

BC CALC® Member Report

Dry | 2 spans | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Dropped Beams\BM3-2(i6480)

City, State, Zip:

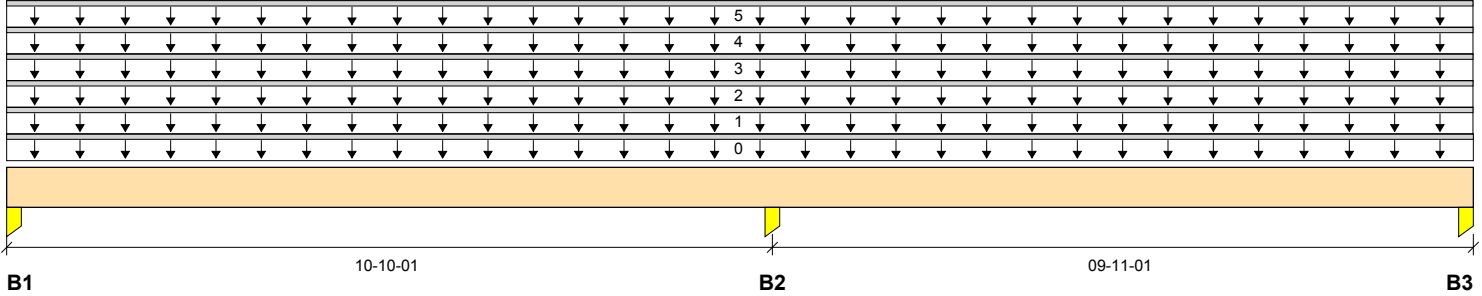
Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 22"		1204 / 0	1157 / 0		
B2, 22"		2734 / 0	2600 / 0		
B3, 11"		985 / 0	951 / 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	20-09-02	Top		14				00-00-00
1	User Load	Unf. Lin. (lb/ft)	L	00-00-00	20-09-01	Top		223	223			n/a
2	User Load_Unb_N	Unf. Lin. (lb/ft)	L	00-00-00	20-09-01	Top			223			n/a
3	User Load_Unb_S	Unf. Lin. (lb/ft)	L	00-00-00	20-09-01	Top			223			n/a
4	User Load_Unb_E	Unf. Lin. (lb/ft)	L	00-00-00	20-09-01	Top			223			n/a
5	User Load_Unb_W	Unf. Lin. (lb/ft)	L	00-00-00	20-09-01	Top			223			n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	2513 ft-lbs	27.5%	115%	1	16-07-07
Neg. Moment	-2890 ft-lbs	31.7%	115%	1	11-09-01
End Shear	955 lbs	8.9%	115%	1	03-00-00
Cont. Shear	1701 lbs	15.9%	115%	5	08-09-01
Total Load Deflection	L/999 (0.016")	n/a	n/a	1	16-02-15
Live Load Deflection	L/999 (0.008")	n/a	n/a	8	16-02-15
Max Defl.	0.016"	n/a	n/a	1	16-02-15
Span / Depth	7.8				
Dist. Load (B1)	446 lb/ft	1.4%	100%		
Dist. Load (B2)	446 lb/ft	1.4%	100%		

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Column 22" x 3-1/2"	2336 lbs	4.2%	4.0%	Unspecified
B2	Column 22" x 3-1/2"	5304 lbs	9.5%	9.2%	Unspecified
B3	Column 11" x 3-1/2"	1912 lbs	6.8%	6.6%	Unspecified



BC CALC® Member Report

Dry | 2 spans | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Dropped Beams\BM3-2(i6480)

City, State, Zip:

Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

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.

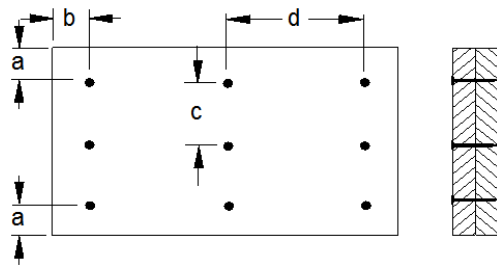
BC CALC® analysis is based on IBC 2015.

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

Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 20-09-01, Bottom: 20-09-01.

Connection Diagram: Full Length of Member



a minimum = 2"

c = 5"

b minimum = 3"

d = 24"

Calculated Side Load = 0.0 lb/ft

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

Disclosure

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



Double 1-3/4" x 14" VERSA-LAM® LVL 2.1E 3100 SP
2ND FLOOR\Dropped Beams\BM4-2(i6496) (Dropped Beam)

PASSED

BC CALC® Member Report

Dry | 1 span | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Dropped Beams\BM4-2(i6496)

City, State, Zip:

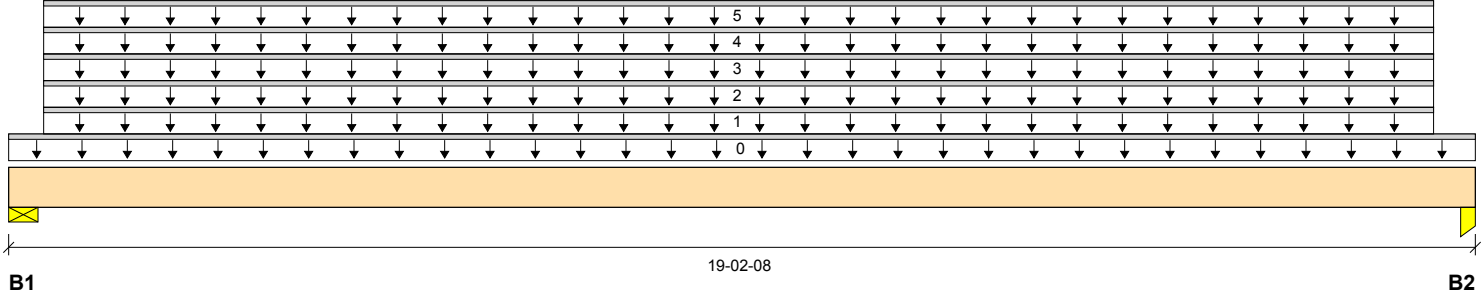
Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:



Total Horizontal Product Length = 19-02-08

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 5-1/2"		2237 / 0	2104 / 0		
B2, 11"		2331 / 0	2192 / 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	19-02-08	Top		14				00-00-00
1	User Load	Unf. Lin. (lb/ft)	L	00-05-08	18-07-15	Top		236	236			n/a
2	User Load_Unb_N	Unf. Lin. (lb/ft)	L	00-05-08	18-07-15	Top			236			n/a
3	User Load_Unb_S	Unf. Lin. (lb/ft)	L	00-05-08	18-07-15	Top			236			n/a
4	User Load_Unb_E	Unf. Lin. (lb/ft)	L	00-05-08	18-07-15	Top			236			n/a
5	User Load_Unb_W	Unf. Lin. (lb/ft)	L	00-05-08	18-07-15	Top			236			n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	19599 ft-lbs	58.7%	115%	1	09-04-08
End Shear	3768 lbs	35.2%	115%	1	01-07-08
Total Load Deflection	L/299 (0.721")	80.3%	n/a	1	09-04-08
Live Load Deflection	L/616 (0.35")	58.5%	n/a	6	09-04-08
Max Defl.	0.721"	48.1%	n/a	1	09-04-08
Span / Depth	15.4				

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 5-1/2" x 3-1/2"	4342 lbs	31.1%	30.1%	Unspecified
B2	Column 11" x 3-1/2"	4523 lbs	16.2%	15.7%	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.
 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.
 Calculations assume member is fully braced.



BC CALC® Member Report

Dry | 1 span | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Dropped Beams\BM4-2(i6496)

City, State, Zip:

Specifier:

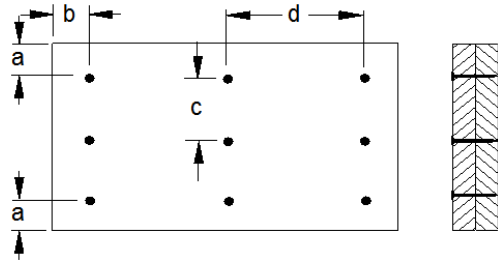
Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:

Connection Diagram: Full Length of Member



a minimum = 2" c = 5"
b minimum = 3" d = 24"

Calculated Side Load = 0.0 lb/ft
Connectors are: 3-1/4 in. Pneumatic Gun Nails

Disclosure

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



Double 1-3/4" x 14" VERSA-LAM® LVL 2.1E 3100 SP
2ND FLOOR\Dropped Beams\BM5-2(i6476) (Dropped Beam)

PASSED

BC CALC® Member Report

Dry | 1 span | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Dropped Beams\BM5-2(i6476)

City, State, Zip:

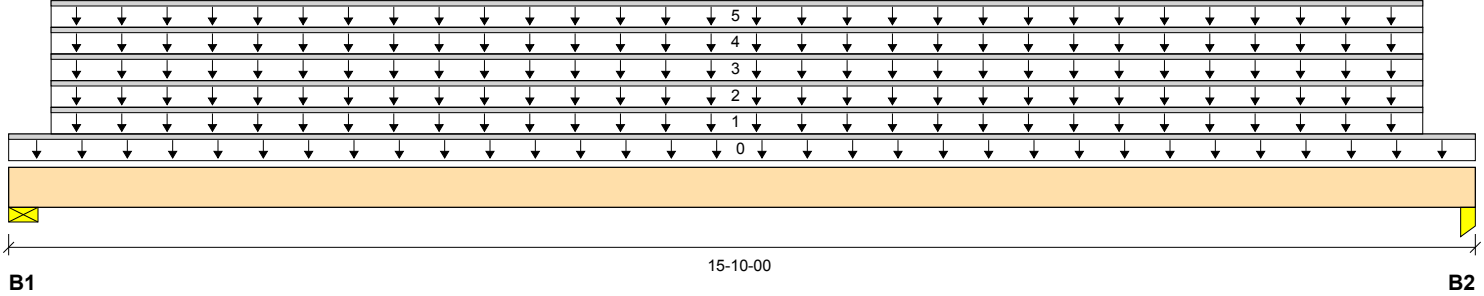
Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 5-1/2"		1800 / 0	1691 / 0		
B2, 12-1/2"		1920 / 0	1803 / 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	15-10-00	Top		14				00-00-00
1	User Load	Unf. Lin. (lb/ft)	L	00-05-08	15-03-03	Top		236	236			n/a
2	User Load_Unb_N	Unf. Lin. (lb/ft)	L	00-05-08	15-03-03	Top			236			n/a
3	User Load_Unb_S	Unf. Lin. (lb/ft)	L	00-05-08	15-03-03	Top			236			n/a
4	User Load_Unb_E	Unf. Lin. (lb/ft)	L	00-05-08	15-03-03	Top			236			n/a
5	User Load_Unb_W	Unf. Lin. (lb/ft)	L	00-05-08	15-03-03	Top			236			n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	12704 ft-lbs	38.0%	115%	1	07-07-08
End Shear	2917 lbs	27.2%	115%	1	01-07-08
Total Load Deflection	L/555 (0.313")	43.3%	n/a	1	07-07-08
Live Load Deflection	L/1142 (0.152")	31.5%	n/a	6	07-07-08
Max Defl.	0.313"	20.9%	n/a	1	07-07-08
Span / Depth	12.4				

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 5-1/2" x 3-1/2"	3491 lbs	25.0%	24.2%	Unspecified
B2	Column 12-1/2" x 3-1/2"	3723 lbs	11.7%	11.3%	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.
 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.
 Calculations assume member is fully braced.



BC CALC® Member Report

Dry | 1 span | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Dropped Beams\BM5-2(i6476)

City, State, Zip:

Specifier:

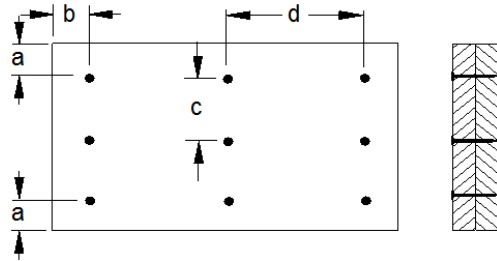
Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:

Connection Diagram: Full Length of Member



a minimum = 2" c = 5"
b minimum = 3" d = 24"

Calculated Side Load = 0.0 lb/ft
Connectors are: 3-1/4 in. Pneumatic Gun Nails

Disclosure

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



Triple 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP
2ND FLOOR\Wall Headers\E10Hdr2(i6509) (Wall Header)

PASSED

BC CALC® Member Report

Dry | 1 span | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Wall Headers\E10Hdr2(i6509)

City, State, Zip:

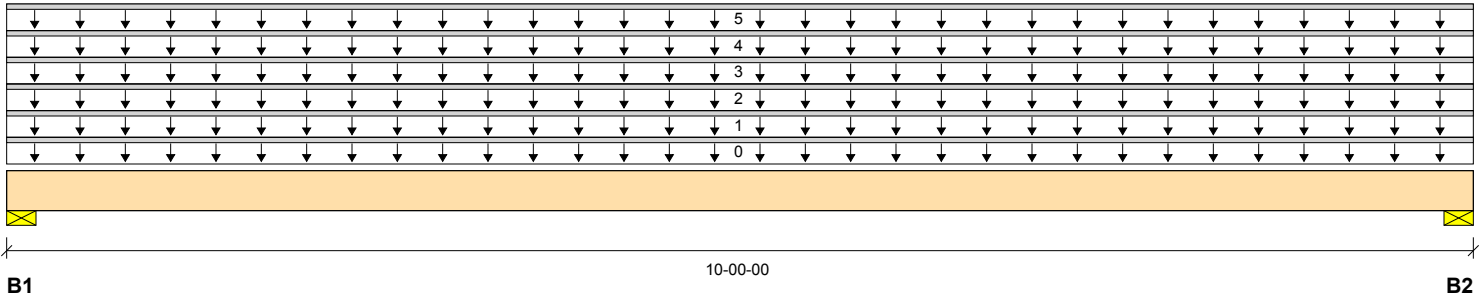
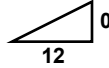
Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:



Total Horizontal Product Length = 10-00-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 4-1/2"		3590 / 0	3500 / 0		
B2, 4-1/2"		3590 / 0	3500 / 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	10-00-00	Top		18				00-00-00
1	User Load	Unf. Lin. (lb/ft)	L	00-00-00	10-00-00	Top		700	700			n/a
2	User Load_Unb_N	Unf. Lin. (lb/ft)	L	00-00-00	10-00-00	Top			700			n/a
3	User Load_Unb_S	Unf. Lin. (lb/ft)	L	00-00-00	10-00-00	Top			700			n/a
4	User Load_Unb_E	Unf. Lin. (lb/ft)	L	00-00-00	10-00-00	Top			700			n/a
5	User Load_Unb_W	Unf. Lin. (lb/ft)	L	00-00-00	10-00-00	Top			700			n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	15579 ft-lbs	43.2%	115%	4	05-00-00
End Shear	5155 lbs	37.8%	115%	4	01-04-06
Total Load Deflection	L/669 (0.168")	35.9%	n/a	4	05-00-00
Live Load Deflection	L/999 (0.083")	n/a	n/a	9	05-00-00
Max Defl.	0.168"	11.2%	n/a	4	05-00-00
Span / Depth	9.5				

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 4-1/2" x 5-1/4"	7090 lbs	41.4%	40.0%	Unspecified
B2	Wall/Plate 4-1/2" x 5-1/4"	7090 lbs	41.4%	40.0%	Unspecified

Cautions

For roof members with slope (1/4)/12 or less final design must ensure that ponding instability will not occur.

For roof members with slope (1/2)/12 or less final design must account for Rain-on-Snow surcharge load.



BC CALC® Member Report

Dry | 1 span | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Wall Headers\E10Hdr2(i6509)

City, State, Zip:

Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:

Notes

Design meets User specified (L/240) Total load deflection criteria.

Design meets User specified (L/360) Live load deflection criteria.

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

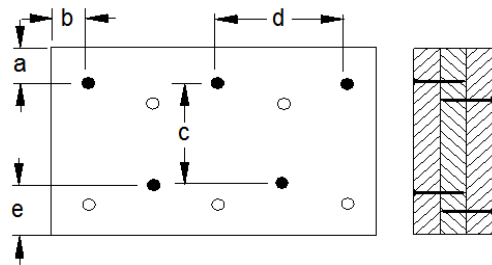
BC CALC® analysis is based on IBC 2015.

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

Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 01-05-07, Bottom: 10-00-00.

Connection Diagram: Full Length of Member



a minimum = 2"

c = 6-7/8"

b minimum = 3"

d = 24"

e minimum = 3"

Calculated Side Load = 0.0 lb/ft

Nailing applies to both sides of the member

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

Disclosure

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Double 1-3/4" x 9-1/4" VERSA-LAM® 2.0 3100 SP
2ND FLOOR\Wall Headers\E12Hdr3(i6313) (Wall Header)

PASSED

BC CALC® Member Report

Dry | 1 span | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Wall Headers\E12Hdr3(i6313)

City, State, Zip:

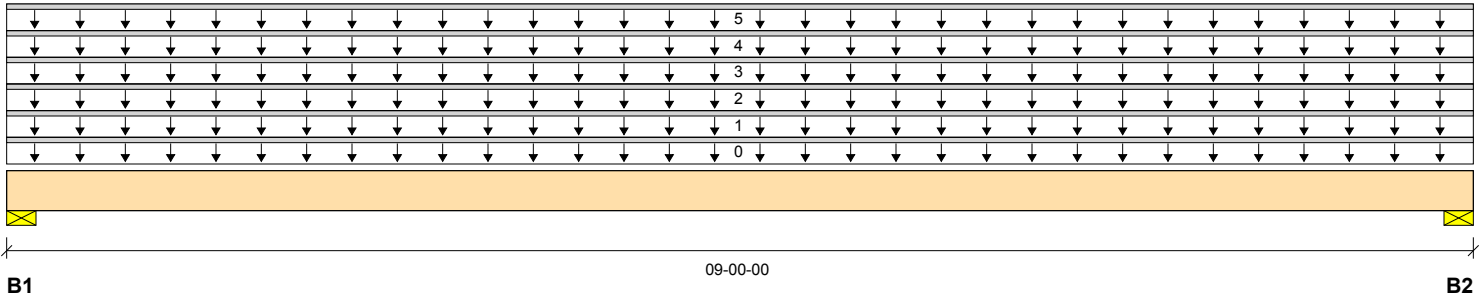
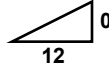
Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:



Total Horizontal Product Length = 09-00-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 4-1/2"		3417 / 0	3375 / 0		
B2, 4-1/2"		3417 / 0	3375 / 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	09-00-00	Top		9				00-00-00
1	User Load	Unf. Lin. (lb/ft)	L	00-00-00	09-00-00	Top		750	750			n\A
2	User Load_Unb_N	Unf. Lin. (lb/ft)	L	00-00-00	09-00-00	Top			750			n\A
3	User Load_Unb_S	Unf. Lin. (lb/ft)	L	00-00-00	09-00-00	Top			750			n\A
4	User Load_Unb_E	Unf. Lin. (lb/ft)	L	00-00-00	09-00-00	Top			750			n\A
5	User Load_Unb_W	Unf. Lin. (lb/ft)	L	00-00-00	09-00-00	Top			750			n\A

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	13234 ft-lbs	87.9%	115%	4	04-06-00
End Shear	5063 lbs	71.6%	115%	4	01-01-12
Total Load Deflection	L/278 (0.362")	86.4%	n\A	4	04-06-00
Live Load Deflection	L/559 (0.18")	64.4%	n\A	9	04-06-00
Max Defl.	0.362"	24.1%	n\A	4	04-06-00
Span / Depth	10.9				

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 4-1/2" x 3-1/2"	6792 lbs	59.5%	57.5%	Unspecified
B2	Wall/Plate 4-1/2" x 3-1/2"	6792 lbs	59.5%	57.5%	Unspecified

Cautions

For roof members with slope (1/4)/12 or less final design must ensure that ponding instability will not occur.

For roof members with slope (1/2)/12 or less final design must account for Rain-on-Snow surcharge load.



BC CALC® Member Report

Dry | 1 span | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Wall Headers\E12Hdr3(i6313)

City, State, Zip:

Specifier:

Customer: Marketplace Builders

Designer:

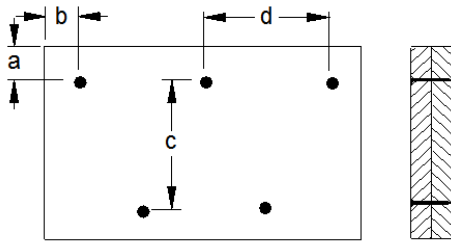
Code reports: ESR-1040

Company:

Notes

Design meets User specified (L/240) Total load deflection criteria.
 Design meets User specified (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.
 Calculations assume unbraced length of Top: 01-05-07, Bottom: 09-00-00.

Connection Diagram: Full Length of Member



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

Calculated Side Load = 0.0 lb/ft
 Connectors are: 3-1/4 in. Pneumatic Gun Nails

Disclosure

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



Triple 1-3/4" x 9-1/4" VERSA-LAM® 2.0 3100 SP
2ND FLOOR\Wall Headers\E19Hdr4(i5735) (Wall Header)

PASSED

BC CALC® Member Report

Dry | 1 span | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Wall Headers\E19Hdr4(i5735)

City, State, Zip:

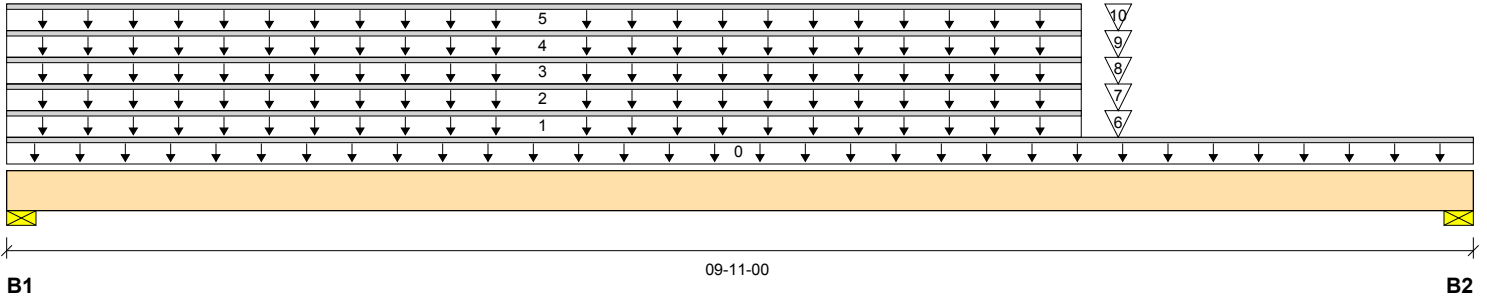
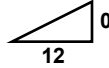
Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:



Total Horizontal Product Length = 09-11-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 4-1/2"		1823 / 0	1753 / 0		
B2, 4-1/2"		1803 / 0	1733 / 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	09-11-00	Top		14				00-00-00
1	User Load	Unf. Lin. (lb/ft)	L	00-00-00	07-03-03	Top		320				n/a
2	User Load_Unb_N	Unf. Lin. (lb/ft)	L	00-00-00	07-03-03	Top			320			n/a
3	User Load_Unb_S	Unf. Lin. (lb/ft)	L	00-00-00	07-03-03	Top			320			n/a
4	User Load_Unb_E	Unf. Lin. (lb/ft)	L	00-00-00	07-03-03	Top			320			n/a
5	User Load_Unb_W	Unf. Lin. (lb/ft)	L	00-00-00	07-03-03	Top			320			n/a
6	User Load	Conc. Pt. (lbs)	L	07-06-03	07-06-03	Top		1162	1162			n/a
7	User Load_Unb_N	Conc. Pt. (lbs)	L	07-06-03	07-06-03	Top			1162			n/a
8	User Load_Unb_S	Conc. Pt. (lbs)	L	07-06-03	07-06-03	Top			1162			n/a
9	User Load_Unb_E	Conc. Pt. (lbs)	L	07-06-03	07-06-03	Top			1162			n/a
10	User Load_Unb_W	Conc. Pt. (lbs)	L	07-06-03	07-06-03	Top			1162			n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	8692 ft-lbs	61.3%	115%	4	05-05-01
End Shear	3520 lbs	33.2%	115%	4	08-09-04
Total Load Deflection	L/567 (0.197")	42.4%	n/a	4	05-01-06
Live Load Deflection	L/999 (0.097")	n/a	n/a	9	05-01-06
Max Defl.	0.197"	13.1%	n/a	4	05-01-06
Span / Depth	12.1				

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 4-1/2" x 5-1/4"	3577 lbs	20.9%	20.2%	Unspecified
B2	Wall/Plate 4-1/2" x 5-1/4"	3536 lbs	20.6%	20.0%	Unspecified

Cautions

For roof members with slope (1/4)/12 or less final design must ensure that ponding instability will not occur.

For roof members with slope (1/2)/12 or less final design must account for Rain-on-Snow surcharge load.



BC CALC® Member Report

Dry | 1 span | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Wall Headers\E19Hdr4(i5735)

City, State, Zip:

Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:

Notes

Design meets User specified (L/240) Total load deflection criteria.

Design meets User specified (L/360) Live load deflection criteria.

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

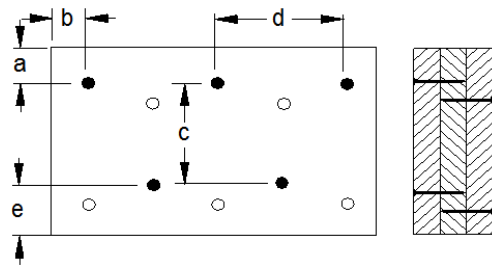
BC CALC® analysis is based on IBC 2015.

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

Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 09-11-00, Bottom: 09-11-00.

Connection Diagram: Full Length of Member



a minimum = 2"

c = 4-1/4"

b minimum = 3"

d = 24"

e minimum = 3"

Calculated Side Load = 0.0 lb/ft

Nailing applies to both sides of the member

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

Disclosure

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



Double 1-3/4" x 9-1/4" VERSA-LAM® 2.0 3100 SP
2ND FLOOR\Wall Headers\E28Hdr5(i6211) (Wall Header)

PASSED

BC CALC® Member Report

Dry | 1 span | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Wall Headers\E28Hdr5(i6211)

City, State, Zip:

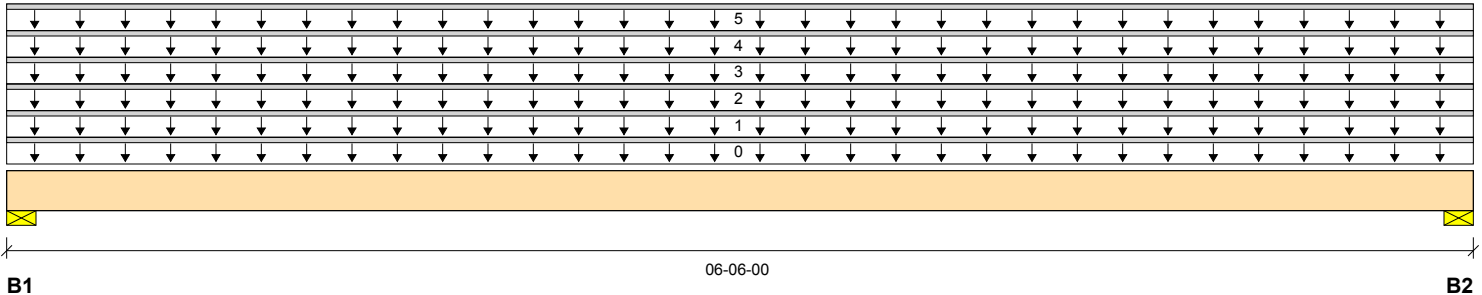
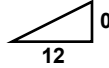
Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:



Total Horizontal Product Length = 06-06-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 3"		2273 / 0	2242 / 0		
B2, 3"		2273 / 0	2242 / 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	06-06-00	Top		9				00-00-00
1	User Load	Unf. Lin. (lb/ft)	L	00-00-00	06-06-00	Top		690	690			n\
2	User Load_Unb_N	Unf. Lin. (lb/ft)	L	00-00-00	06-06-00	Top			690			n\
3	User Load_Unb_S	Unf. Lin. (lb/ft)	L	00-00-00	06-06-00	Top			690			n\
4	User Load_Unb_E	Unf. Lin. (lb/ft)	L	00-00-00	06-06-00	Top			690			n\
5	User Load_Unb_W	Unf. Lin. (lb/ft)	L	00-00-00	06-06-00	Top			690			n\

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	6515 ft-lbs	51.3%	115%	4	03-03-00
End Shear	3097 lbs	43.8%	115%	4	01-00-04
Total Load Deflection	L/999 (0.095")	n\	n\	4	03-03-00
Live Load Deflection	L/999 (0.047")	n\	n\	9	03-03-00
Max Defl.	0.095"	n\	n\	4	03-03-00
Span / Depth	7.9				

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 3" x 3-1/2"	4515 lbs	59.3%	57.3%	Unspecified
B2	Wall/Plate 3" x 3-1/2"	4515 lbs	59.3%	57.3%	Unspecified

Cautions

For roof members with slope (1/4)/12 or less final design must ensure that ponding instability will not occur.

For roof members with slope (1/2)/12 or less final design must account for Rain-on-Snow surcharge load.



BC CALC® Member Report

Dry | 1 span | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Wall Headers\E28Hdr5(i6211)

City, State, Zip:

Specifier:

Customer: Marketplace Builders

Designer:

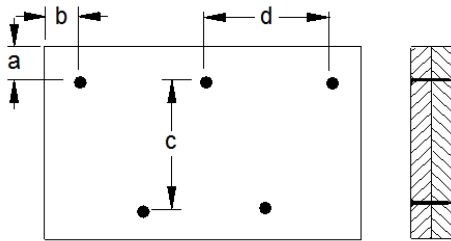
Code reports: ESR-1040

Company:

Notes

Design meets User specified (L/240) Total load deflection criteria.
 Design meets User specified (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.
 Calculations assume unbraced length of Top: 06-06-00, Bottom: 06-06-00.

Connection Diagram: Full Length of Member



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

Calculated Side Load = 0.0 lb/ft
 Connectors are: 3-1/4 in. Pneumatic Gun Nails

Disclosure

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



Triple 1-3/4" x 9-1/4" VERSA-LAM® 2.0 3100 SP
2ND FLOOR\Wall Headers\E28Hdr6(i6212) (Wall Header)

PASSED

BC CALC® Member Report

Dry | 1 span | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Wall Headers\E28Hdr6(i6212)

City, State, Zip:

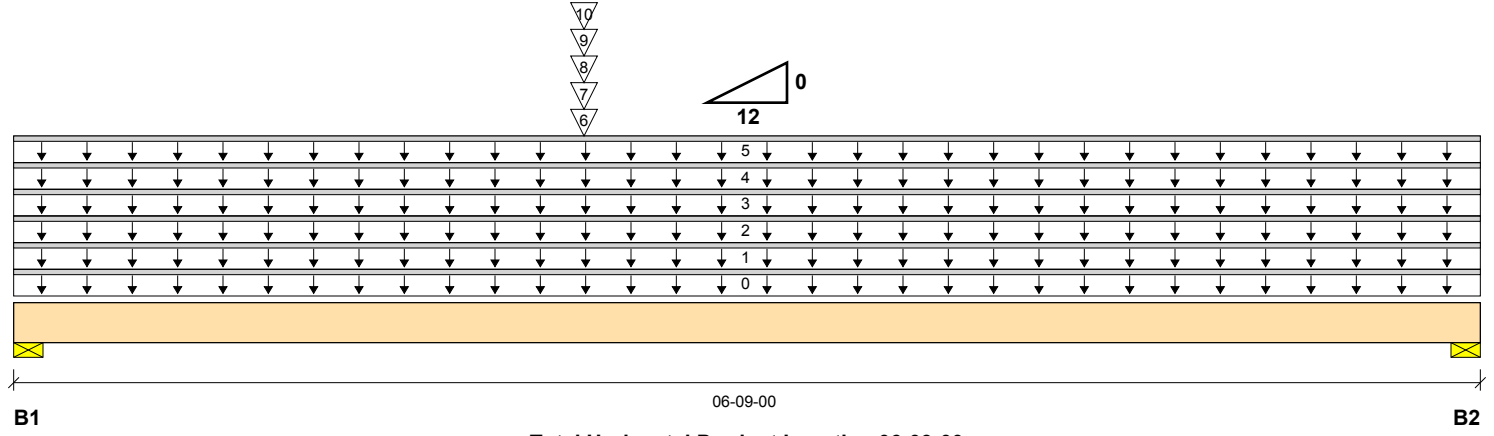
Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:



Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 3"		2778 / 0	2730 / 0		
B2, 3"		2625 / 0	2577 / 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	06-09-00	Top		14				00-00-00
1	User Load	Unf. Lin. (lb/ft)	L	00-00-00	06-09-00	Top		690	690			n\ a
2	User Load_Unb_N	Unf. Lin. (lb/ft)	L	00-00-00	06-09-00	Top			690			n\ a
3	User Load_Unb_S	Unf. Lin. (lb/ft)	L	00-00-00	06-09-00	Top			690			n\ a
4	User Load_Unb_E	Unf. Lin. (lb/ft)	L	00-00-00	06-09-00	Top			690			n\ a
5	User Load_Unb_W	Unf. Lin. (lb/ft)	L	00-00-00	06-09-00	Top			690			n\ a
6	User Load	Conc. Pt. (lbs)	L	02-07-08	02-07-08	Top		650	650			n\ a
7	User Load_Unb_N	Conc. Pt. (lbs)	L	02-07-08	02-07-08	Top			650			n\ a
8	User Load_Unb_S	Conc. Pt. (lbs)	L	02-07-08	02-07-08	Top			650			n\ a
9	User Load_Unb_E	Conc. Pt. (lbs)	L	02-07-08	02-07-08	Top			650			n\ a
10	User Load_Unb_W	Conc. Pt. (lbs)	L	02-07-08	02-07-08	Top			650			n\ a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	8755 ft-lbs	46.4%	115%	4	03-00-08
End Shear	4085 lbs	38.5%	115%	4	01-00-04
Total Load Deflection	L/999 (0.091")	n\ a	n\ a	4	03-04-08
Live Load Deflection	L/999 (0.045")	n\ a	n\ a	9	03-04-08
Max Defl.	0.091"	n\ a	n\ a	4	03-04-08
Span / Depth	8.3				

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 3" x 5-1/4"	5508 lbs	48.2%	46.6%	Unspecified
B2	Wall/Plate 3" x 5-1/4"	5202 lbs	45.6%	44.0%	Unspecified



BC CALC® Member Report

Dry | 1 span | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Wall Headers\E28Hdr6(i6212)

City, State, Zip:

Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:

Cautions

For roof members with slope (1/4)/12 or less final design must ensure that ponding instability will not occur.

For roof members with slope (1/2)/12 or less final design must account for Rain-on-Snow surcharge load.

Notes

Design meets User specified (L/240) Total load deflection criteria.

Design meets User specified (L/360) Live load deflection criteria.

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

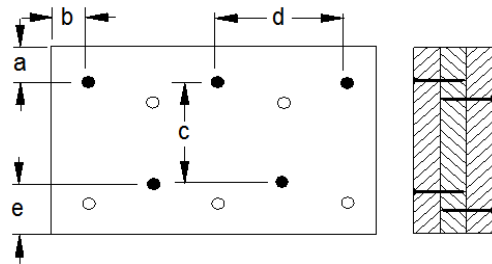
BC CALC® analysis is based on IBC 2015.

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

Design based on Dry Service Condition.

Calculations assume unbraced length of Top: 06-09-00, Bottom: 06-09-00.

Connection Diagram: Full Length of Member



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

Calculated Side Load = 0.0 lb/ft
 Nailing applies to both sides of the member
 Connectors are: 3-1/4 in. Pneumatic Gun Nails

Disclosure

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Triple 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP
2ND FLOOR\Wall Headers\E6Hdr2(i6495) (Wall Header)

PASSED

BC CALC® Member Report

Dry | 1 span | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Wall Headers\E6Hdr2(i6495)

City, State, Zip:

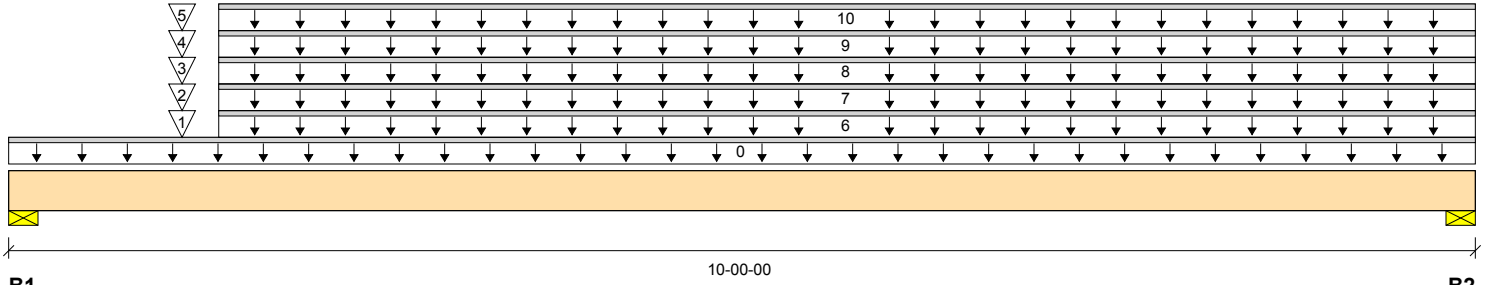
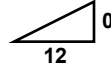
Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:



Total Horizontal Product Length = 10-00-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 4-1/2"		3654 / 0	3564 / 0		
B2, 4-1/2"		2735 / 0	2645 / 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	10-00-00	Top		18				00-00-00
1	User Load	Conc. Pt. (lbs)	L	01-02-03	01-02-03	Top		1925	1925			n/a
2	User Load_Unb_N	Conc. Pt. (lbs)	L	01-02-03	01-02-03	Top			1925			n/a
3	User Load_Unb_S	Conc. Pt. (lbs)	L	01-02-03	01-02-03	Top			1925			n/a
4	User Load_Unb_E	Conc. Pt. (lbs)	L	01-02-03	01-02-03	Top			1925			n/a
5	User Load_Unb_W	Conc. Pt. (lbs)	L	01-02-03	01-02-03	Top			1925			n/a
6	User Load	Unf. Lin. (lb/ft)	L	01-05-03	10-00-00	Top		500	500			n/a
7	User Load_Unb_N	Unf. Lin. (lb/ft)	L	01-05-03	10-00-00	Top			500			n/a
8	User Load_Unb_S	Unf. Lin. (lb/ft)	L	01-05-03	10-00-00	Top			500			n/a
9	User Load_Unb_E	Unf. Lin. (lb/ft)	L	01-05-03	10-00-00	Top			500			n/a
10	User Load_Unb_W	Unf. Lin. (lb/ft)	L	01-05-03	10-00-00	Top			500			n/a

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	12587 ft-lbs	67.5%	115%	4	04-08-05
End Shear	6485 lbs	47.6%	115%	4	01-04-06
Total Load Deflection	L/814 (0.138")	29.5%	n/a	4	04-10-02
Live Load Deflection	L/999 (0.068")	n/a	n/a	9	04-10-02
Max Defl.	0.138"	9.2%	n/a	4	04-10-02
Span / Depth	9.5				

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 4-1/2" x 5-1/4"	7219 lbs	42.1%	40.7%	Unspecified
B2	Wall/Plate 4-1/2" x 5-1/4"	5381 lbs	31.4%	30.4%	Unspecified

Cautions

For roof members with slope (1/4)/12 or less final design must ensure that ponding instability will not occur.

For roof members with slope (1/2)/12 or less final design must account for Rain-on-Snow surcharge load.



BC CALC® Member Report

Dry | 1 span | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Wall Headers\E6Hdr2(i6495)

City, State, Zip:

Specifier:

Customer: Marketplace Builders

Designer:

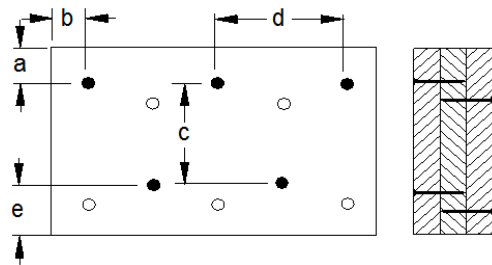
Code reports: ESR-1040

Company:

Notes

Design meets User specified (L/240) Total load deflection criteria.
 Design meets User specified (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.
 Calculations assume unbraced length of Top: 10-00-00, Bottom: 10-00-00.

Connection Diagram: Full Length of Member



- a minimum = 2" c = 6-7/8"
- b minimum = 3" d = 24"
- e minimum = 3"

Calculated Side Load = 0.0 lb/ft
 Nailing applies to both sides of the member
 Connectors are: 3-1/4 in. Pneumatic Gun Nails

Disclosure

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Triple 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP
2ND FLOOR\Wall Headers\E8Hdr1(i6311) (Wall Header)

PASSED

BC CALC® Member Report

Dry | 1 span | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Wall Headers\E8Hdr1(i6311)

City, State, Zip:

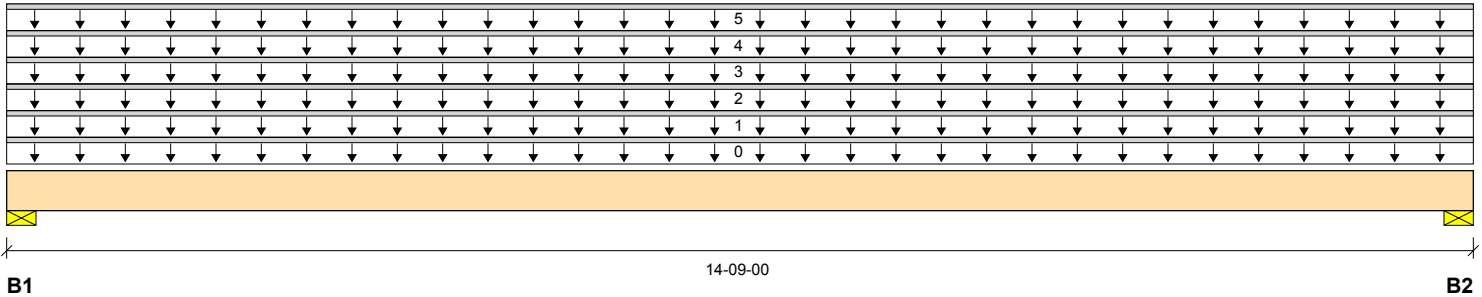
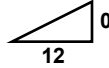
Specifier:

Customer: Marketplace Builders

Designer:

Code reports: ESR-1040

Company:



Total Horizontal Product Length = 14-09-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 4-1/2"		3452 / 0	3319 / 0		
B2, 4-1/2"		3452 / 0	3319 / 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	14-09-00	Top		18				00-00-00
1	User Load	Unf. Lin. (lb/ft)	L	00-00-00	14-09-00	Top		450	450			n\A
2	User Load_Unb_N	Unf. Lin. (lb/ft)	L	00-00-00	14-09-00	Top			450			n\A
3	User Load_Unb_S	Unf. Lin. (lb/ft)	L	00-00-00	14-09-00	Top			450			n\A
4	User Load_Unb_E	Unf. Lin. (lb/ft)	L	00-00-00	14-09-00	Top			450			n\A
5	User Load_Unb_W	Unf. Lin. (lb/ft)	L	00-00-00	14-09-00	Top			450			n\A

Controls Summary

	Value	% Allowable	Duration	Case	Location
Pos. Moment	22896 ft-lbs	63.5%	115%	4	07-04-08
End Shear	5518 lbs	40.5%	115%	4	01-04-06
Total Load Deflection	L/302 (0.561")	79.5%	n\A	4	07-04-08
Live Load Deflection	L/616 (0.275")	58.4%	n\A	9	07-04-08
Max Defl.	0.561"	37.4%	n\A	4	07-04-08
Span / Depth	14.3				

Bearing Supports

	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 4-1/2" x 5-1/4"	6771 lbs	39.5%	38.2%	Unspecified
B2	Wall/Plate 4-1/2" x 5-1/4"	6771 lbs	39.5%	38.2%	Unspecified

Cautions

For roof members with slope (1/4)/12 or less final design must ensure that ponding instability will not occur.

For roof members with slope (1/2)/12 or less final design must account for Rain-on-Snow surcharge load.



BC CALC® Member Report

Dry | 1 span | No cant.

April 26, 2021 13:32:38

Build 8013

Job name: 155 Mockingbird

File name: 155 Mockingbird

Address:

Description: 2ND FLOOR\Wall Headers\E8Hdr1(i6311)

City, State, Zip:

Specifier:

Customer: Marketplace Builders

Designer:

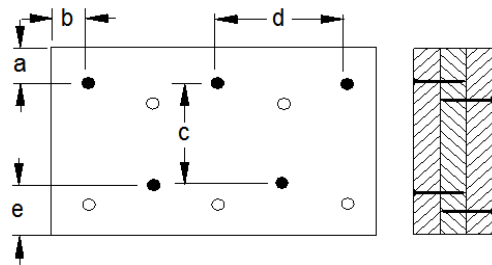
Code reports: ESR-1040

Company:

Notes

Design meets User specified (L/240) Total load deflection criteria.
 Design meets User specified (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.
 Calculations assume unbraced length of Top: 01-05-07, Bottom: 14-09-00.

Connection Diagram: Full Length of Member



- a minimum = 2" c = 6-7/8"
- b minimum = 3" d = 24"
- e minimum = 3"

Calculated Side Load = 0.0 lb/ft
 Nailing applies to both sides of the member
 Connectors are: 3-1/4 in. Pneumatic Gun Nails

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