

Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP



2nd Floor Layout\Dropped Beams\BM6-2(i4125)

Build 6621

Job name:

CL-3090- w/ CP (GR)

Address: City, State, Zip:

Customer: Code reports: Repla...umber

ESR-1040

Dry | 1 span | No cant.

September 21, 2018 14:31:50

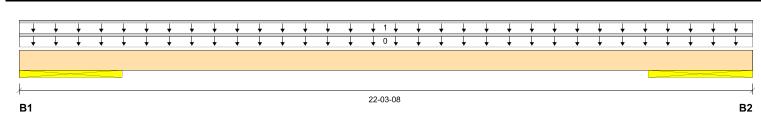
File name: CL 3090 wCP GOR.mmdl

Description:

2nd Floor Layout\Dropped Beams\BM6-2(i4125)

Specifier: Designer:

Company: **Caviness Land Development**



Total Horizontal Product Length = 22-03-08

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live	
B1, 37-1/2"		1,246 / 0	1,113 / 0			
B2, 38"		1,251 / 0	1,117 / 0			

Lo	ad Summary						Live	Dead	Snow	Wind	Roof Live	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	22-03-08	Тор		12				00-00-00
1	User Load	Unf. Lin. (lb/ft)	L	00-00-00	22-03-08	Top		100	100			n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	6,892 ft-lbs	85.4%	115%	1	11-01-08
End Shear	1,486 lbs	16.4%	115%	1	04-01-06
Total Load Deflection	L/586 (0.33")	41.0%	n∖a	1	11-01-08
Live Load Deflection	L/1,243 (0.156")	29.0%	n∖a	6	11-01-08
Max Defl.	0.33"	33.0%	n∖a	1	11-01-08
Span / Depth	16.3				
Dist. Load (B1)	200.00 lb/ft	0.6%	100%		
Dist. Load (B2)	200.00 lb/ft	0.6%	100%		

Bearir	ng Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	37-1/2" x 3-1/2"	2,359 lbs	2.2%	2.4%	Unspecified
B2	Wall/Plate	38" x 3-1/2"	2,368 lbs	2.2%	2.4%	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") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Calculations assume unbraced length of Top: 16-00-00, Bottom: 16-00-00.

BC CALC® analysis is based on IBC 2009.

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

Design based on Dry Service Condition.

Member has no side loads.





Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

2nd Floor Layout\Dropped Beams\BM6-2(i4125)

PASSED

BC CALC® Member Report

Dry | 1 span | No cant.

September 21, 2018 14:31:50

Build 6621

Job name: Address:

CL-3090- w/ CP (GR)

City, State, Zip:

Repla...umber

Customer: Code reports: ESR-1040

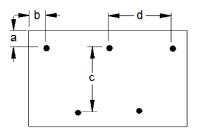
CL 3090 wCP GOR.mmdl

File name: Description: 2nd Floor Layout\Dropped Beams\BM6-2(i4125)

Specifier: Designer:

Company: **Caviness Land Development**

Connection Diagram: Full Length of Member





a minimum = 2"

c = 7-7/8"

b minimum = 3"

d = 24"

Member has no side loads. Connectors are: 16d Sinker 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 16" VERSA-LAM® 2.0 3100 SP

2nd Floor Layout\Flush Beams\BM9-3(i4204)



Dry | 1 span | No cant.

BC CALC® Member Report Build 6621

CL-3090- w/ CP (GR)

File name:

CL 3090 wCP GOR.mmdl

2nd Floor Layout\Flush Beams\BM9-3(i4204)

September 21, 2018 14:32:02

Job name:

Address:

Description: Specifier:

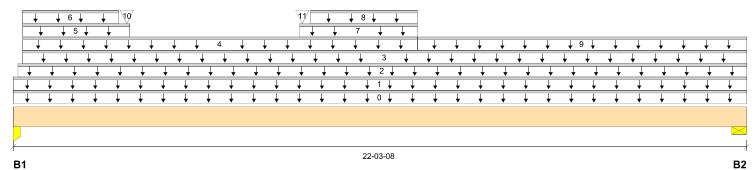
City, State, Zip:

Customer:

Repla...umber

Designer:

Code reports: ESR-1040 Company: **Caviness Land Development**



Total Horizontal Product Length = 22-03-08

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live	
B1, 3-1/2"	224 / 0	5,031 / 0	4,326 / 0			
B2 3-1/2"	198 / 0	3 019 / 0	2 703 / 0			

Lo	ad Summary						Live	Dead	Snow	Wind	Roof Live	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	22-03-08	Тор		24				00-00-00
1	Trusses	Unf. Lin. (lb/ft)	L	00-00-00	22-03-08	Top		40	40			n∖a
2	FC1 Floor Material	Unf. Lin. (lb/ft)	L	00-01-12	22-03-08	Top	12	6				n∖a
3	FC1 Floor Material	Unf. Lin. (lb/ft)	L	00-03-08	22-03-08	Top	4					n∖a
4	FC1 Floor Material	Unf. Lin. (lb/ft)	L	00-03-08	12-03-07	Тор	5					n∖a
5	E20(i1055)	Unf. Lin. (lb/ft)	L	00-03-08	03-06-07	Top		62				n∖a
6	E20(i1055)	Unf. Lin. (lb/ft)	L	00-03-08	03-02-07	Top		420	420			n∖a
7	E19(i1054)	Unf. Lin. (lb/ft)	L	08-08-07	12-03-07	Top		62				n∖a
8	E19(i1054)	Unf. Lin. (lb/ft)	L	09-00-07	12-03-07	Top		420	420			n∖a
9	Stick Built Trusses	Unf. Lin. (lb/ft)	L	12-03-08	22-03-08	Top		83	110			n∖a
10	E20(i1055)	Conc. Pt. (lbs)	L	03-05-07	03-05-07	Top		1,269	1,225			n∖a
11	E19(i1054)	Conc. Pt. (lbs)	L	08-09-07	08-09-07	Top		1,269	1,225			n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	44,068 ft-lbs	68.4%	115%	2	09-09-12
End Shear	7,952 lbs	43.3%	115%	2	01-07-08
Total Load Deflection	L/263 (0.998")	91.4%	n\a	2	10-11-11
Live Load Deflection	L/564 (0.465")	63.9%	n\a	13	10-11-11
Max Defl.	0.998"	99.8%	n\a	2	10-11-11
Span / Depth	16.4				

Bear	ing Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material	
B1	Column	3-1/2" x 5-1/4"	9,357 lbs	63.7%	67.9%	Unspecified	
B2	Wall/Plate	3-1/2" x 5-1/4"	5,722 lbs	73.3%	41.5%	Unspecified	



Triple 1-3/4" x 16" VERSA-LAM® 2.0 3100 SP

2nd Floor Layout\Flush Beams\BM9-3(i4204)



September 21, 2018 14:32:02

Dry | 1 span | No cant.

Build 6621

CL-3090- w/ CP (GR) CL 3090 wCP GOR.mmdl Job name: File name:

Description: Address: 2nd Floor Layout\Flush Beams\BM9-3(i4204)

City, State, Zip: Repla...umber Specifier:

Designer: Customer:

Code reports: ESR-1040 Company: **Caviness Land Development**

Notes

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

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

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Calculations assume member is fully braced.

BC CALC® analysis is based on IBC 2009.

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

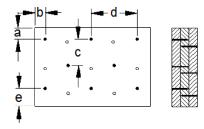
Design based on Dry Service Condition.

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Nailing schedule applies to both sides of the member.

Member has no side loads.

Connection Diagram: Full Length of Member



a minimum = 2"

c = 5-1/2"

d = 24"b minimum = 3"

e minimum = 3"

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Nailing schedule applies to both sides of the member.

Member has no side loads.

Connectors are: 16d Sinker Nails

Disclosure

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Triple 1-3/4" x 14" VERSA-LAM® 2.0 3100 SP

2nd Floor Layout\Flush Beams\BM7-3(i4200)



September 21, 2018 14:32:08

BC CALC® Member Report Build 6621

Job name:

CL-3090- w/ CP (GR)

Address: City, State, Zip:

Customer: Code reports: Repla...umber

ESR-1040

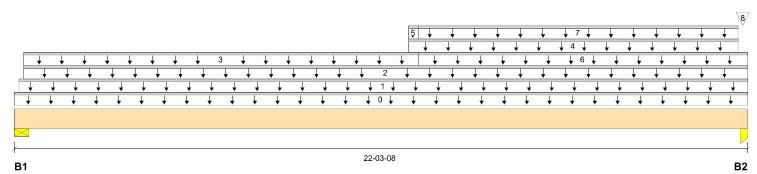
Dry | 1 span | No cant.

File name: CL 3090 wCP GOR.mmdl

2nd Floor Layout\Flush Beams\BM7-3(i4200)

Description: Specifier: Designer:

Company: **Caviness Land Development**



Total Horizontal Product Length = 22-03-08

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	´ `Dead	Snow	Wind	Roof Live	
B1, 3-1/2"	515 / 0	1,399 / 0	902 / 0			
B2. 3-1/2"	479 / 0	3.868 / 0	3.159 / 0			

Loa	ad Summary						Live	Dead	Snow	Wind	Roof Live	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	22-03-08	Тор		21				00-00-00
1	FC1 Floor Material	Unf. Lin. (lb/ft)	L	00-01-12	22-03-08	Top	32	16				n\a
2	FC1 Floor Material	Unf. Lin. (lb/ft)	L	00-03-08	22-03-08	Top	7					n\a
3	FC1 Floor Material	Unf. Lin. (lb/ft)	L	00-03-08	12-03-07	Top	9					n∖a
4	E17(i1052)	Unf. Lin. (lb/ft)	L	11-11-15	22-00-00	Top		62				n\a
5	E17(i1052)	Unf. Lin. (lb/ft)	L	11-11-15	12-03-07	Top		186	200			n\a
6	FC1 Floor Material	Unf. Lin. (lb/ft)	L	12-03-07	22-03-08	Top	2					n∖a
7	E17(i1052)	Unf. Lin. (lb/ft)	L	12-03-07	22-00-00	Top		373	400			n\a
8	E15(i972)	Conc. Pt. (lbs)	L	22-01-12	22-01-12	Top		136	117			n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	26,621 ft-lbs	53.2%	115%	2	14-01-14
End Shear	5,745 lbs	35.8%	115%	2	20-10-00
Total Load Deflection	L/309 (0.849")	77.7%	n∖a	2	11-11-15
Live Load Deflection	L/712 (0.368")	50.6%	n∖a	13	12-03-06
Max Defl.	0.849"	84.9%	n∖a	2	11-11-15
Span / Depth	18.7				

Beari	ng Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate	3-1/2" x 5-1/4"	2,461 lbs	31.5%	17.9%	Unspecified
B2	Column	3-1/2" x 5-1/4"	7,027 lbs	47.8%	51.0%	Unspecified





2nd Floor Layout\Flush Beams\BM7-3(i4200)



September 21, 2018 14:32:08

Dry | 1 span | No cant.

Build 6621

CL-3090- w/ CP (GR) CL 3090 wCP GOR.mmdl Job name: File name:

Description: Address: 2nd Floor Layout\Flush Beams\BM7-3(i4200)

City, State, Zip: Repla...umber Specifier:

Designer: Customer:

Code reports: ESR-1040 Company: **Caviness Land Development**

Notes

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

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

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Calculations assume member is fully braced.

BC CALC® analysis is based on IBC 2009.

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

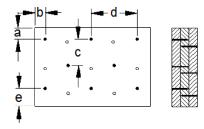
Design based on Dry Service Condition.

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Nailing schedule applies to both sides of the member.

Member has no side loads.

Connection Diagram: Full Length of Member



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

e minimum = 3"

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Nailing schedule applies to both sides of the member.

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

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Triple 1-3/4" x 14" VERSA-LAM® 2.0 3100 SP

2nd Floor Layout\Flush Beams\BM8-3(i4213)



September 21, 2018 14:32:14

Build 6621

Code reports:

Job name: CL-3090- w/ CP (GR)

Address:

BC CALC® Member Report

City, State, Zip: Customer:

Repla...umber

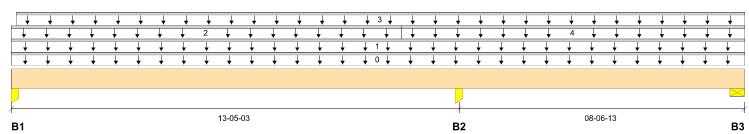
ESR-1040

Dry | 2 spans | No cant.

File name: CL 3090 wCP GOR.mmdl Description: 2nd Floor Layout\Flush Beams\BM8-3(i4213)

Specifier:

Designer: Company: **Caviness Land Development**



Total Horizontal Product Length = 22-00-00

Reaction Summary (Down / Uplift) (Ibs)

Bearing	Live	. ´ Dead	Snow	Wind	Roof Live	
B1, 3-1/2"	85 / 4	2,741 / 0	2,285 / 0			
B2, 3-1/2"	211 / 0	6,136 / 0	4,891 / 0			
B3, 3-1/2"	60 / 24	767 / 0	843 / 51			

Lo	ad Summary						Live	Dead	Snow	Wind	Roof Live	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	22-00-00	Тор		21				00-00-00
1	E16(i973)	Unf. Lin. (lb/ft)	L	00-00-00	22-00-00	Top		62				n∖a
2	E16(i973)	Unf. Lin. (lb/ft)	L	00-00-00	11-08-07	Top		400	400			n∖a
3	FC1 Floor Material	Unf. Lin. (lb/ft)	L	00-01-12	22-00-00	Top	15	5				n∖a
4	E16(i973)	Unf. Lin. (lb/ft)	L	11-08-07	22-00-00	Top		290	290			n∖a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	13,088 ft-lbs	26.1%	115%	8	05-07-07
Neg. Moment	-13,945 ft-lbs	27.8%	115%	4	13-05-03
End Shear	3,731 lbs	23.2%	115%	8	01-05-08
Cont. Shear	5,690 lbs	35.4%	115%	4	12-01-07
Total Load Deflection	L/1,080 (0.147")	22.2%	n\a	8	06-03-02
Live Load Deflection	L/999 (0.068")	n\a	n\a	39	06-03-02
Total Neg. Defl.	L/999 (-0.021")	n\a	n\a	8	16-03-07
Max Defl.	0.147"	14.7%	n\a	8	06-03-02
Span / Depth	11.3				

Bearing	Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Column	3-1/2" x 5-1/4"	5,027 lbs	64.2%	36.4%	Unspecified
B2	Column	3-1/2" x 5-1/4"	11,027 lbs	75.0%	80.0%	Unspecified
В3	Wall/Plate	3-1/2" x 5-1/4"	1,610 lbs	20.6%	11.7%	Unspecified



Triple 1-3/4" x 14" VERSA-LAM® 2.0 3100 SP

2nd Floor Layout\Flush Beams\BM8-3(i4213)



September 21, 2018 14:32:14

Dry | 2 spans | No cant.

Build 6621

CL-3090- w/ CP (GR) CL 3090 wCP GOR.mmdl Job name: File name:

Description: Address: 2nd Floor Layout\Flush Beams\BM8-3(i4213)

City, State, Zip: Repla...umber Specifier:

Designer: Customer:

Code reports: ESR-1040 Company: **Caviness Land Development**

Notes

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

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

Design meets arbitrary (1") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Calculations assume member is fully braced.

BC CALC® analysis is based on IBC 2009.

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

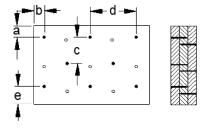
Design based on Dry Service Condition.

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Nailing schedule applies to both sides of the member.

Member has no side loads.

Connection Diagram: Full Length of Member



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

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Nailing schedule applies to both sides of the member.

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

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Double 1-3/4" x 9-1/4" VERSA-LAM® 2.0 3100 SP



2nd Floor Layout\Dropped Beams\BM5-2(i4163)

BC CALC® Member Report

Dry | 1 span | No cant.

September 21, 2018 14:32:20

Build 6621

Job name:

CL-3090- w/ CP (GR)

Address: City, State, Zip:

Customer:

Repla...umber

Designer:

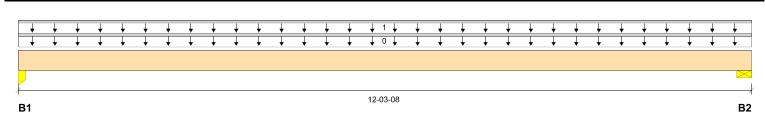
Code reports: ESR-1040 CL 3090 wCP GOR.mmdl 2nd Floor Layout\Dropped Beams\BM5-2(i4163)

Description:

Specifier:

File name:

Company: **Caviness Land Development**



Total Horizontal Product Length = 12-03-08

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live	
B1, 4"		736 / 0	678 / 0			
B2, 3-1/2"		731 / 0	674 / 0			

Lo	ad Summary						Live	Dead	Snow	Wind	Roof Live	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	125%	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	12-03-08	Top		9				00-00-00
1	Trusses	Unf. Lin. (lb/ft)	L	00-00-00	12-03-08	Top		110	110			n\a

Controls Summary	Value	% Allowable	Duration	Case	Location
Pos. Moment	3,986 ft-lbs	49.1%	115%	1	06-02-00
End Shear	1,161 lbs	16.4%	115%	1	01-01-04
Total Load Deflection	L/655 (0.216")	36.7%	n\a	1	06-02-00
Live Load Deflection	L/999 (0.104")	n∖a	n\a	6	06-02-00
Max Defl.	0.216"	21.6%	n\a	1	06-02-00
Span / Depth	15.3				

Bear	ing Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Column	4" x 3-1/2"	1,414 lbs	12.6%	13.5%	Unspecified
B2	Wall/Plate	3-1/2" x 3-1/2"	1,405 lbs	27.0%	15.3%	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") Maximum Total load deflection criteria.

Design meets arbitrary (0.75") Maximum live load deflection criteria.

Calculations assume unbraced length of Top: 12-00-00, Bottom: 12-00-00.

BC CALC® analysis is based on IBC 2009.

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

Design based on Dry Service Condition.

Member has no side loads.





Double 1-3/4" x 9-1/4" VERSA-LAM® 2.0 3100 SP

2nd Floor Layout\Dropped Beams\BM5-2(i4163)

PASSED

BC CALC® Member Report

Dry | 1 span | No cant.

September 21, 2018 14:32:20

Build 6621

Job name:

CL-3090- w/ CP (GR)

CL 3090 wCP GOR.mmdl

2nd Floor Layout\Dropped Beams\BM5-2(i4163)

Address:

File name: Description:

City, State, Zip:

Specifier:

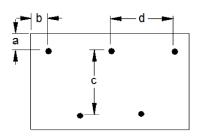
Customer: Code reports:

ESR-1040

Designer:
Company: Caviness Land Development

Connection Diagram: Full Length of Member

Repla...umber





a minimum = 2"

c = 5-1/4"

b minimum = 3"

d = 24"

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

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

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