

Client: 84 Fayetteville NC Project:

CL3067A GL

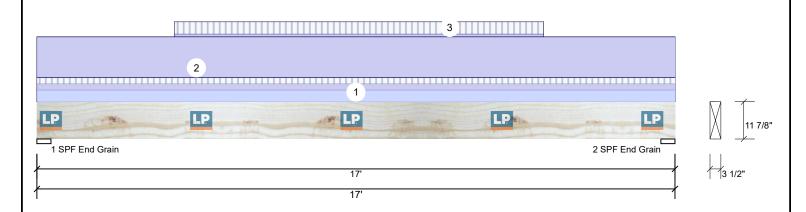
Date: 3/25/2020 Input by:

Kyle Militzer Job Name: CL3067A GL Project #: 15244

#### 3.500" X 11.875" - PASSED **LP-LSL 1.55E** HD5-A

Address:

Level: 2nd Flr



Member Inforn	nation			Reactio	ns PATTE	RNED lb (U	lplift)		
Туре:	Girder	Application:	Floor	Brg	Live	Dead	Snow	Wind	Const
Plies:	1	Design Method:	ASD	1	365	1454	0	0	340
Moisture Condition:	Dry	Building Code:	IRC 2012	2	369	1455	0	0	340
Deflection LL:	360	Load Sharing:	No						
Deflection TL:	240	Deck:	Not Checked						
Importance:	Normal								
Temperature:	Temp <= 100°F								
General Load				Bearing	gs				
Floor Live:	40 PSF			Bearing	g Length	Cap. Rea	ct D/L lb	Total Ld. Case	Ld. Comb.
Dead:	10 PSF			1 - SPF End	4.500"	14% 1	454 / 528	1982 Uniform	D+0.75(L+C)
Analysis Result	s			Grain					
Analysis Act	ual Location	Allowed Canac	ity Comb Ca	2 - SPF	4.500"	14% 1	455 / 532	1986 Uniform	D+0.75(L+C)

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7618 ft-lb	8'6 1/16"	16198 ft-lb	0.470 (47%)	D+L	L
Shear	1582 lb	15'8 3/8"	11360 lb	0.139 (14%)	D+L	L
LL Defl inch	0.157 (L/1254)	8'6 1/16"	0.546 (L/360)	0.290 (29%)	0.75(L+C)	Uniform
TL Defl inch	0.548 (L/359)	8'6 1/16"	0.819 (L/240)	0.670 (67%)	D+0.75(L+C)	Uniform

#### **Design Notes**

- 1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
- 2 Dead Load Deflection: Instant = 0.391", Long Term = 0.587"
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.

L	5 Bottom braced	at bearings.										
ſ	ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
l	1	Part. Uniform	0-0-0 to 17-0-0		Тор	20 PLF	20 PLF	0 PLF	0 PLF	40 PLF		
l	2	Part. Uniform	0-0-0 to 17-0-0		Тор	132 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight	
l	3	Part. Uniform	3-8-0 to 13-6-0		Тор	10 PLF	40 PLF	0 PLF	0 PLF	0 PLF		
١		Self Weight				13 PLF						

End Grain

#### Notes

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

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Manufacturer Info

Louisiana-Pacific Corp 414 Union Street, Suite 2000 Nashville, TN 37219 (888) 820-0325 www.lpcorp.com APA: PR-L280, ICC-ES: ESR-2403, LADBS: RR-25783, Florida: FL15228 US Lumber 3312 North Berkeley Lake Rd, GA 30096 888-613-5078

Page 1 of 1







Client: Project:

Address:

84 Fayetteville NC

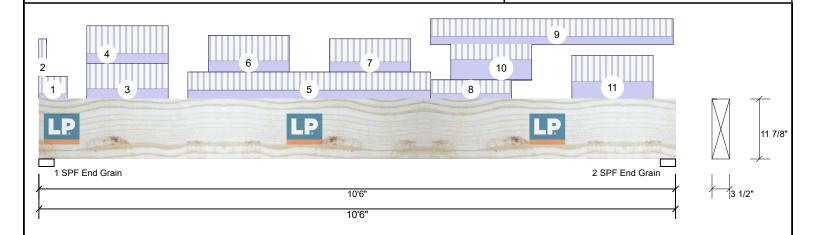
Caviness Land - CL3067

Date: 4/27/2020 Input by: Kyle Militzer

Job Name: CL3067A GL Project #: 15244

#### 3.500" X 11.875" - PASSED **LP-LSL 1.55E**

Level: 2nd Flr



Member Info	rmation			Reaction	is PATTE	RNED Ib (U	plift)			
Type:	Girder	Application:	Floor	Brg	Live	Dead	Snow	Wind	Const	_
Plies:	1	Design Method:	ASD	1	3563	1674	0	0	0	
Moisture Condition	on: Dry	Building Code:	IRC 2012	2	3629	2061	0	0	0	
Deflection LL:	360	Load Sharing:	No							
Deflection TL:	240	Deck:	Not Checked							
Importance:	Normal									
Temperature:	Temp <= 100°F									_
General Load				Bearings	5					
Floor Live:	40 PSF			Bearing	Length	Cap. Read	ct D/L lb	Total Ld. Case	Ld. Comb.	
Dead:	10 PSF			1 - SPF End	3.000"	57% 167	4 / 3563	5237 L	D+L	
Analvsis Resu	lts			Grain						

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	13706 ft-lb	5'5"	16198 ft-lb	0.846 (85%)	D+L	L
Shear	4416 lb	9'3 7/8"	11360 lb	0.389 (39%)	D+L	L
LL Defl ind	ch 0.251 (L/485)	5'3 3/16"	0.338 (L/360)	0.740 (74%)	L	L
TL Defl ind	h 0.383 (L/317)	5'3 9/16"	0.506 (L/240)	0.760 (76%)	D+L	L

## **Design Notes**

- 1 P re
- 2 D
- 3 G
- 4 To
- 5 B

Provide lateral support to prevent rotation at end bearings and at interior bearings when
required by code for seismic design.
Dead Load Deflection: Instant = 0.133", Long Term = 0.199"
Girders are designed to be supported on the bottom edge only.
Top braced at bearings.
Bottom braced at bearings

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 0-5-8		Тор	100 PLF	337 PLF	0 PLF	0 PLF	0 PLF	J8
2	Part. Uniform	0-0-0 to 0-1-8		Тор	179 PLF	573 PLF	0 PLF	0 PLF	0 PLF	J3
3	Part. Uniform	0-9-8 to 2-1-8		Тор	197 PLF	506 PLF	0 PLF	0 PLF	0 PLF	J8
4	Part. Uniform	0-9-8 to 2-1-8		Тор	201 PLF	542 PLF	0 PLF	0 PLF	0 PLF	J3
5	Part. Uniform	2-5-8 to 6-5-8		Тор	171 PLF	355 PLF	0 PLF	0 PLF	0 PLF	J3
6	Part. Uniform	2-9-8 to 4-1-8		Тор	221 PLF	506 PLF	0 PLF	0 PLF	0 PLF	J8
7	Part. Uniform	4-9-8 to 6-1-8		Тор	202 PLF	464 PLF	0 PLF	0 PLF	0 PLF	J8
8	Part. Uniform	6-5-8 to 7-9-8		Тор	110 PLF	261 PLF	0 PLF	0 PLF	0 PLF	J8

Continued on page 2...

#### Notes

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62% 2061 / 3629

5690 L

D+L

US Lumber 3312 North Berkeley Lake Rd, GA 888-613-5078

Page 1 of 2



This design is valid until 10/31/2021

2 - SPF 3.000"

End Grain





Client: 84 Fayetteville NC Project:

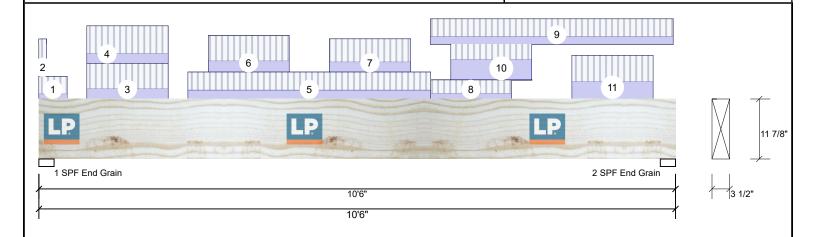
Caviness Land - CL3067

4/27/2020 Date: Input by: Kyle Militzer Job Name: CL3067A GL

**LP-LSL 1.55E** 3.500" X 11.875" - PASSED HD4-A

Address:

Project #: 15244 Level: 2nd Flr



Continued	from	page	1

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
9	Part. Uniform	6-5-8 to 10-5-8		Тор	153 PLF	352 PLF	0 PLF	0 PLF	0 PLF	J3	
10	Part. Uniform	6-9-8 to 8-1-8		Тор	405 PLF	308 PLF	0 PLF	0 PLF	0 PLF	J8	
11	Part. Uniform	8-9-8 to 10-1-8		Тор	338 PLF	516 PLF	0 PLF	0 PLF	0 PLF	J8	
	Self Weight				13 PLF						

#### Notes

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Page 2 of 2







Client: Project:

Address:

84 Fayetteville NC

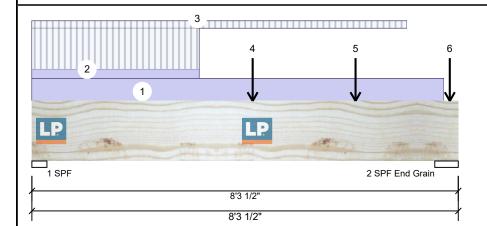
Caviness Land - CL3067

Date: 4/27/2020

Input by: Kyle Militzer Job Name: CL3067A GL Project #: 15244

#### 3.500" X 14.000" - PASSED FB4-B **LP-LSL 1.55E**

Level: 2nd Flr



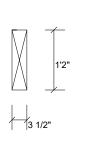
Application:

Design Method:

**Building Code:** 

Load Sharing:

Deck:



Page 1 of 1

## Member Information

Type: Plies: Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal

Temp <= 100°F Temperature:

General Load

40 PSF Floor Live: 10 PSF Dead:

#### Reactions PATTERNED Ib (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	555 (-105)	523	0	0	0
2	397 (-84)	500	23	0	0

Floor

ASD

No

IRC 2012

Not Checked

Analysis Results Analysis Actual Location Allowed Comb. Case Capacity 1912 ft-lb Moment 4'3 1/2" 22073 ft-lb 0.087 (9%) D+L L Shear 962 lb 6'8 3/4" 13393 lb 0.072 (7%) L

4'2 1/2" 0.256 (L/360) 0.040 (4%) L LL Defl inch 0.011 (L/8401) TL Defl inch 0.022 (L/4237) 4'1 3/4" 0.383 (L/240) 0.060 (6%) D+L

### **Bearings**

Dearings	,					
Bearing	Length	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	21%	523 / 555	1078	L	D+L
2 - SPF End Grain	5.500"	5%	500 / 397	896	L	D+L

#### **Design Notes**

- 1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
- 2 Dead Load Deflection: Instant = 0.011", Long Term = 0.016"
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Rottom braced at bearings

5 BOILOTT Brace	d at bearings.									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 8-0-0		Тор	80 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-0 to 3-3-0		Near Face	36 PLF	148 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 7-3-5		Near Face	0 PLF	-26 PLF	0 PLF	0 PLF	0 PLF	
4	Point	4-3-8		Near Face	59 lb	244 lb	0 lb	0 lb	0 lb	J4
5	Point	6-3-8		Near Face	54 lb	227 lb	0 lb	0 lb	0 lb	J4
6	Point	8-1-8		Тор	23 lb	0 lb	23 lb	0 lb	0 lb	
	Bearing Length	0-3-8								
	Self Weight				16 PLF					

ī

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Address:

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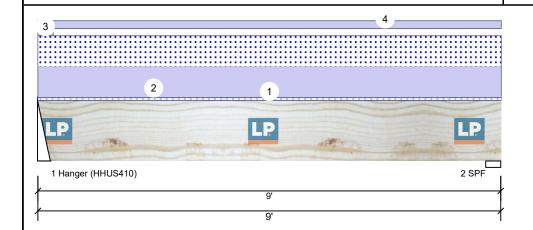
Caviness Land - CL3067

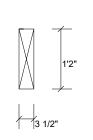
Date: 4/27/2020 Input by: Kyle Militzer

Job Name: CL3067A GL Project #: 15244

#### FB4-A LP-LSL 1.55E 3.500" X 14.000" - PASSED

Level: 2nd Flr





Page 1 of 1

Member Information					Reactions PATTERNED lb (Uplift)						
Type:	Girder	Application:	Floor	Brg	Live	Dead	Snow	Wind	Const		
Plies:	1	Design Method:	ASD	1	116	1924	1433	0	0		
Moisture Condition	on: Dry	Building Code:	IRC 2012	2	117	1918	1447	0	0		
Deflection LL:	360	Load Sharing:	No								
Deflection TL:	240	Deck:	Not Checked								
Importance:	Normal										
Temperature:	Temp <= 100°F										
General Load				Bearings	1						
Floor Live:	40 PSF			Bearing	Length	Cap. Rea	ct D/L lb	Total Ld. Case	Ld. Comb.		
Dead:	10 PSF			1 -	3.000"	37% 192	24 / 1433	3357 L	D+S		
				Hanger							
Analysis Results					3.500"	65% 191	18 / 1447	3365 L	D+S		

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6855 ft-lb	4'5 3/4"	25384 ft-lb	0.270 (27%)	D+S	L
Shear	2326 lb	7'7 1/4"	15402 lb	0.151 (15%)	D+S	L
LL Defl inch	0.040 (L/2547)	4'5 3/4"	0.286 (L/360)	0.140 (14%)	S	L

TL Defl inch 0.094 (L/1095) 4'5 3/4" 0.429 (L/240) 0.220 (22%) D+S

#### **Design Notes**

- 1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
- 2 Dead Load Deflection: Instant = 0.054", Long Term = 0.080"
- 3 Fill all hanger nailing holes.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top braced at bearings.
- 6 Bottom braced at bearings

o Dottolli bracco	a at bearings.									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Tie-In	0-0-0 to 9-0-0	0-10-6	Тор	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 9-0-0		Тор	320 PLF	0 PLF	320 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 0-3-8		Тор	80 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Part. Uniform	0-0-0 to 9-0-0		Тор	80 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
	Self Weight				16 PLF					

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Client: 8
Project: 0

Address:

84 Fayetteville NC

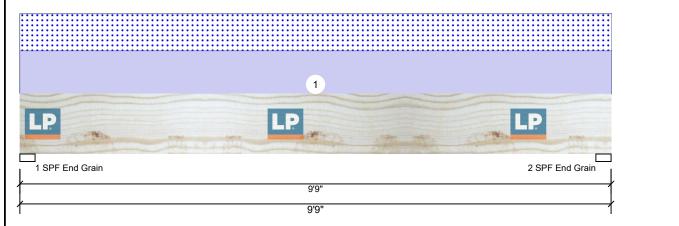
Caviness Land - CL3067

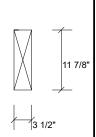
Date: 4/27/2020

Input by: Kyle Militzer
Job Name: CL3067A GL
Project #: 15244

# HD3-A LP-LSL 1.55E 3.500" X 11.875" - PASSED

Level: 2nd Flr





Page 1 of 1

Member Information									
Type:	Girder								
Plies:	1								
Moisture Condition:	Dry								
Deflection LL:	360								
Deflection TL:	240								
Importance:	Normal								
Temperature:	Temp <= 100°F								
General Load									
Floor Live:	40 PSF								

10 PSF

Application: Floor
Design Method: ASD
Building Code: IRC 2012
Load Sharing: No
Deck: Not Checked

Reactions PATTERNED Ib (Uplift) Brg Live Dead Wind Const Snow 0 1264 1024 0 0 1 0 1264 1024 0 0 2

## Analysis Results

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5156 ft-lb	4'10 1/2"	18628 ft-lb	0.277 (28%)	D+S	L
Shear	1735 lb	1'2 1/8"	13064 lb	0.133 (13%)	D+S	L
LL Defl inch	0.056 (L/1992)	4'10 1/2"	0.312 (L/360)	0.180 (18%)	S	L
TL Defl inch	0.126 (L/892)	4'10 1/2"	0.469 (L/240)	0.270 (27%)	D+S	L

# Bearings Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.000" 25% 1264 / 1024 2288 L D+S End Grain

2 - SPF 3.000" 25% 1264 / 1024 2288 L D+S End Grain

#### **Design Notes**

- 1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
- 2 Dead Load Deflection: Instant = 0.070", Long Term = 0.105"
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top braced at bearings.
- 5 Bottom braced at bearings.

v ====================================										
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 9-9-0		Тор	246 PLF	0 PLF	210 PLF	0 PLF	0 PLF	

Self Weight

13 PLF

#### Notes

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