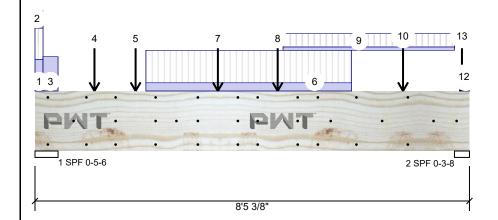


84 Lumber-Fayetteville #2307 Caviness Land - CL3281 Lot 35 Winds Way Date: 11/15/2024 Input by: Kyle Militzer

Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW

FB2 2.0E 2900Fb PWT LVL 1.750" X 14.000" 2-Ply - PASSED

Level: 2nd Flr





Page 1 of 4

Member Information

Type: Girder
Plies: 2
Moisture Condition: Dry
Deflection LL: 360
Deflection TL: 240
Importance: Normal - II

Temperature: Temp <= 100°F
General Load
Floor Live: 40 PSF

10 PSF

Application: Floor
Design Method: ASD
Building Code: IRC 2021
Load Sharing: No
Deck: Not Checked

Reactions PATTERNED Ib (Uplift) Live Snow Wind Brg Direction Const 1211 480 0 Vertical n 0 1 2 Vertical 881 470 0 0 0

Bearings

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. D+L 1 - SPF 5.375" Vert 21% 480 / 1211 1691 L 2 - SPF 3.500" Vert 26% 470 / 881 1351 L D+I

Analysis Results

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3499 ft-lb	3'7 9/16"	26792 ft-lb	13%	D+L	L
Shear	1605 lb	1'7 3/8"	9310 lb	17%	D+L	L
LL Defl inch	0.023 (L/4166)	4'1 1/4"	0.261 (L/360)	9%	L	L
TL Defl inch	0.031 (L/2989)	4'2 1/16"	0.392 (L/240)	8%	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.009", Long Term = 0.013".
- 3 Fasten all plies using 3 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Concentrated load fastener specification is in addition to hanger fasteners if a hanger is
- 6 Girders are designed to be supported on the bottom edge only.
- 7 Top loads must be supported equally by all plies.
- 8 Top must be laterally braced at end bearings.
- 9 Bottom must be laterally braced at end bearings.

o Bottom made so laterally staded at one seamings.										
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 0-1-14		Тор	88 PLF	88 PLF	0 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 0-1-14		Тор	48 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Part. Uniform	0-1-14 to 0-5-6		Тор	96 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Point	1-1-14		Near Face	34 lb	134 lb	0 lb	0 lb	0 lb	J2
5	Point	1-11-8		Far Face	134 lb	529 lb	0 lb	0 lb	0 lb	J4

Continued on page 2...

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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Pacific Woodtech Corp 1850 Park Lane Burlington, WA 98233 (800) 515-7570 www.pwtewp.com ICC-ES: ESR-2909 ESR-2403 APA: PR-L233 PR-L280 U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 30097 888-613-5078







84 Lumber-Fayetteville #2307 Caviness Land - CL3281 Lot 35 Winds Way Date: 11/15/2024 Input by: Kyle Militze

ut by: Kyle Militzer

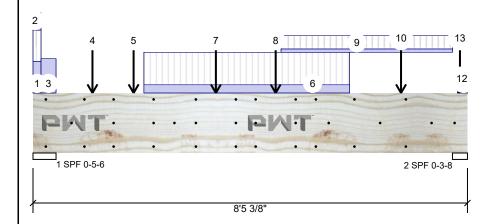
Name: Cl 3281-GR CP 3C-35 WV

Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW

FB2 2.0E 2900Fb PWT LVL 1.750"

1.750" X 14.000" 2-l

2-Ply - PASSED Level: 2nd Flr





Page 2 of 4

Continued from	.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
6	Part. Uniform	2-1-14 to 6-1-14		Near Face	23 PLF	91 PLF	0 PLF	0 PLF	0 PLF	
7	Point	3-6-11		Far Face	117 lb	461 lb	0 lb	0 lb	0 lb	J4
8	Point	4-8-10		Far Face	232 lb	323 lb	0 lb	0 lb	0 lb	FB4
9	Tie-In	4-9-14 to 8-1-14	0-11-2	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
10	Point	7-1-14		Near Face	35 lb	138 lb	0 lb	0 lb	0 lb	J2
11	Tie-In	8-3-0 to 8-5-6	0-2-2	Тор	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
12	Tie-In	8-3-0 to 8-5-6	0-9-14	Тор	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
13	Point	8-3-10		Тор	105 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
	Self Weight				14 PLF					

Notes

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84 Lumber-Fayetteville #2307 Caviness Land - CL3281 Lot 35 Winds Way

Date: 11/15/2024 Input by: Kyle Militzer

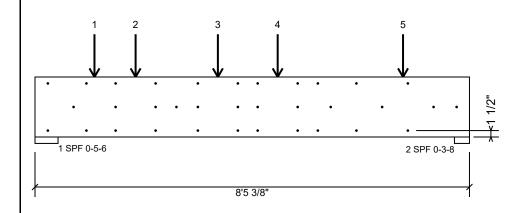
Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW

2.0E 2900Fb PWT LVL

1.750" X 14.000"

2-Ply - PASSED

Level: 2nd Flr





Page 3 of 4

Multi-Ply Analysis

Fasten all plies using 3 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. except for regions covered by concentrated load fastening. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	16.2 %
Load	57.0 PLF
Yield Limit per Foot	352.8 PLF
Yield Limit per Fastener	117.6 lb.
CM	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	D+L
Duration Factor	1.00

Concentrated Load

Fasten at concentrated side load at 1-11-8 with a minimum of (6) - 16d Sinker Nails (.148x3.25") in the pattern shown.

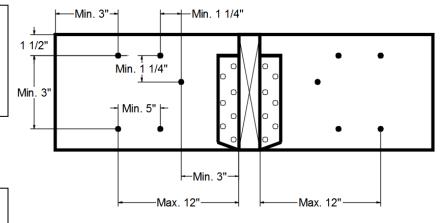
Capacity	47.0 %	
Load	331.5lb.	
Total Yield Limit	705.4 lb.	
Cg	0.9998	
CM	1	
Yield Limit per Fastener	117.6 lb.	
Yield Mode	IV	
Load Combination	D+L	
Duration Factor	1.00	

Concentrated Load

Fasten at concentrated side load at 3-6-11 with a minimum of (6) - 16d Sinker Nails (.148x3.25") in the pattern shown.

Capacity 41.0 % Load 289.0lb. Total Yield Limit 705.4 lb. 0.9998 Сg См Yield Limit per Fastener 117.6 lb. Yield Mode IV _oad Combination D+L 1.00 Duration Factor

Min/Max fastener distances for Concentrated Side Loads



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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This design is valid until 9/3/2027

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PR-L233 PR-L280

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Version 24.60.996 Powered by iStruct™ Dataset: 24103101.10041





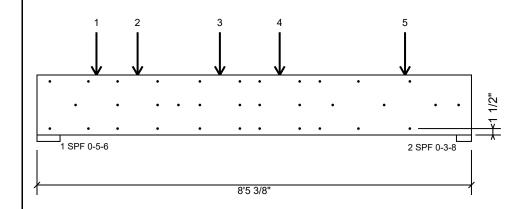
84 Lumber-Fayetteville #2307 Caviness Land - CL3281 Lot 35 Winds Way

Date: 11/15/2024 Input by: Kyle Militzer

Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW

2.0E 2900Fb PWT LVL 1.750" X 14.000" 2-Ply - PASSED

Level: 2nd Flr





Page 4 of 4

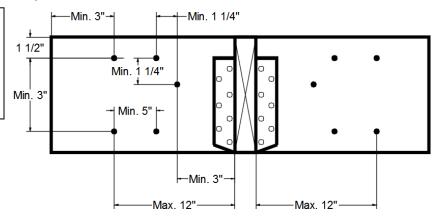
Multi-Ply Analysis

Concentrated Load

Fasten at concentrated side load at 4-8-10 with a minimum of (6) – 16d Sinker Nails (.148x3.25") in the pattern shown.

•		
Capacity	39.3 %	
Load	277.5lb.	
Total Yield Limit	705.4 lb.	
Cg См	0.9998	
CM	1	
Yield Limit per Fastener	117.6 lb.	
Yield Mode	IV	
Load Combination	D+L	
Duration Factor	1.00	

Min/Max fastener distances for Concentrated Side Loads



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.

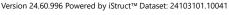
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U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 888-613-5078







Client: 84 Lumber-Fayetteville #2307
Project: Caviness Land - CL3281
Address: Lot 35 Winds Way

Date: 11/15/2024 Input by: Kyle Militzer

Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW

FB3 2.0E 2900Fb PWT LVL 1.750" X 14.000" - PASSED

Application:

Design Method:

Building Code:

Load Sharing:

Deck:

Floor

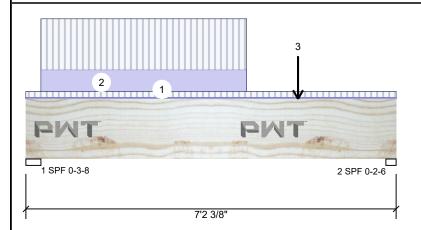
ASD

No

IRC 2021

Not Checked

Level: 2nd Flr





Page 1 of 1

Type: Girder Plies: 1 Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240

Member Information

Deflection TL: 240
Importance: Normal - II
Temperature: Temp <= 100°F

General Load
Floor Live: 40 PSF
Dead: 10 PSF

Reactions PATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1092	496	0	0	0
2	Vertical	901	411	0	0	0

Bearings

Bearing	Length	Dir.	Cap. F	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	61%	496 / 1092	1588	L	D+L
2 - SPF	2.375"	Vert	74%	411 / 901	1312	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2703 ft-lb	3'7 3/16"	13396 ft-lb	20%	D+L	L
Shear	1720 lb	5'10"	4655 lb	37%	D+L	L
LL Defl inch	0.028 (L/2890)	3'7 9/16"	0.228 (L/360)	12%	L	L
TL Defl inch	0.041 (L/1989)	3'7 9/16"	0.342 (L/240)	12%	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.013", Long Term = 0.019".
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top must be laterally braced at end bearings.
- 5 Bottom must be laterally braced at end bearings

5 Bottom must be laterally braced at end 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 7-2-6	1-0-3	Тор	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-3-8 to 4-3-8		Far Face	131 PLF	297 PLF	0 PLF	0 PLF	0 PLF	
3	Point	5-3-8		Far Face	259 lb	586 lb	0 lb	0 lb	0 lb	J8
	Self Weight				7 PLF					

Notes

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Client: 84 Lumber-Fayetteville #2307 Project: Caviness Land - CL3281 Address: Lot 35 Winds Way

Date: 11/15/2024 Input by: Kyle Militzer

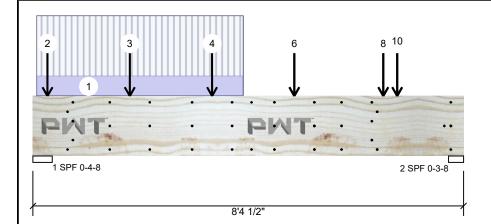
Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW

FB2-A 2.0E 2900Fb PWT LVL

1.750" X 14.000"

2-Ply - PASSED

Level: 2nd Flr



Application:

Design Method:

Building Code:

Load Sharing:

Deck:

Floor

ASD

No

IRC 2021

Not Checked



Page 1 of 5

Member Information

Type: Girder Plies: 2 Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II Temperature:

Temp <= 100°F

General Load Floor Live: 40 PSF 10 PSF Dead:

Reactions PATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	2089	1295	0	0	0
2	Vertical	1336	1068	0	0	0

Bearings

Bearing	Length	Dir.	Cap. I	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	4.500"	Vert	51%	1295 / 2089	3385	L	D+L
2 - SPF	3.500"	Vert	46%	1068 / 1336	2404	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4766 ft-lb	3'6 3/4"	26792 ft-lb	18%	D+L	L
Shear	2693 lb	6'11"	9310 lb	29%	D+L	L
LL Defl inch	0.028 (L/3304)	4' 5/16"	0.261 (L/360)	11%	L	L
TL Defl inch	0.044 (L/2127)	4'1 5/8"	0.392 (L/240)	11%	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.016", Long Term = 0.024".
- 3 Fasten all plies using 3 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Concentrated load fastener specification is in addition to hanger fasteners if a hanger is present.
- 6 Girders are designed to be supported on the bottom edge only.
- 7 Top loads must be supported equally by all plies.
- 8 Top must be laterally braced at end bearings.
- 9 Rottom must be laterally braced at end bearings

ı	5 Dottom mast b	oc laterally braced at em	a 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	0-1-0 to 4-1-0		Far Face	66 PLF	199 PLF	0 PLF	0 PLF	0 PLF	
	2	Point	0-3-6		Near Face	535 lb	471 lb	0 lb	0 lb	0 lb	J4
	3	Point	1-10-10		Near Face	204 lb	526 lb	0 lb	0 lb	0 lb	J4
	4	Point	3-5-13		Near Face	193 lb	484 lb	0 lb	0 lb	0 lb	J4
	5	Point	5-1-0		Far Face	184 lb	398 lb	0 lb	0 lb	0 lb	J10

Continued on page 2...

Notes

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U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 888-613-5078





84 Lumber-Fayetteville #2307 Client: Project: Address:

Caviness Land - CL3281 Lot 35 Winds Way

11/15/2024 Date: Input by: Kyle Militzer

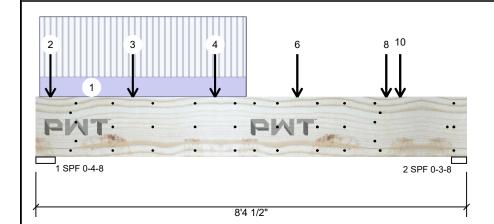
Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW

FB2-A 2.0E 2900Fb PWT LVL

1.750" X 14.000"

2-Ply - PASSED

Level: 2nd Flr





Page 2 of 5

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
6	Point	5-1-0		Near Face	112 lb	144 lb	0 lb	0 lb	0 lb	J2
7	Point	6-9-12		Тор	22 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
8	Point	6-9-12		Тор	9 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
9	Point	7-1-0		Far Face	595 lb	444 lb	0 lb	0 lb	0 lb	J10
10	Point	7-1-0		Near Face	128 lb	162 lb	0 lb	0 lb	0 lb	J2
	Self Weight				14 PLF					

Notes

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Client: 84 Lumber-Fayetteville #2307 Project: Caviness Land - CL3281 Address: Lot 35 Winds Way

Date: 11/15/2024 Input by: Kyle Militzer

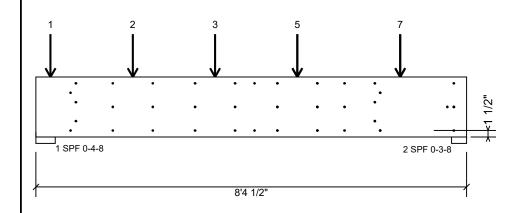
Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW

2.0E 2900Fb PWT LVL

1.750" X 14.000"

2-Ply - PASSED

Level: 2nd Flr





Page 3 of 5

Multi-Ply Analysis

Fasten all plies using 3 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. except for regions covered by concentrated load fastening. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	37.6 %	
Load	132.5 PLF	
Yield Limit per Foot	352.8 PLF	
Yield Limit per Fastener	117.6 lb.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination	D+L	
Duration Factor	1.00	

Concentrated Load

Fasten at concentrated side load at 0-3-6 with a minimum of (5) - 16d Sinker Nails (.148x3.25") in the pattern shown.

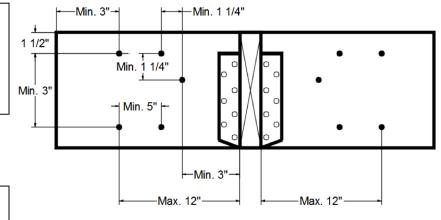
J		
Capacity	85.6 %	
Load	503.0lb.	
Total Yield Limit	587.8 lb.	
Cg	0.9998	
Cg Cm	1	
Yield Limit per Fastener	117.6 lb.	
Yield Mode	IV	
Load Combination	D+L	
Duration Factor	1.00	

Concentrated Load

Fasten at concentrated side load at 1-10-10 with a minimum of (6) - 16d Sinker Nails (.148x3.25") in the pattern shown.

Capacity 51.7 % Load 365.0lb. Total Yield Limit 705.4 lb. 0.9998 Сg См Yield Limit per Fastener 117.6 lb. Yield Mode IV oad Combination D+L Duration Factor 1.00

Min/Max fastener distances for Concentrated Side Loads



Notes

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U.S. Lumber 2160 Satellite Blvd., Suite 450, GA

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U.S.A



Client: 84 Lumber-Fayetteville #2307 Project: Address:

Caviness Land - CL3281 Lot 35 Winds Way

Date: 11/15/2024 Input by: Kyle Militzer

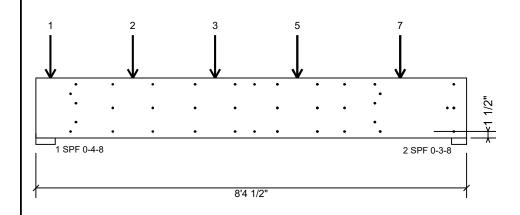
Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW

2.0E 2900Fb PWT LVL

1.750" X 14.000"

2-Ply - PASSED

Level: 2nd Flr





Page 4 of 5

Multi-Ply Analysis

Concentrated Load

Fasten at concentrated side load at 3-5-13 with a minimum of (6) - 16d Sinker Nails (.148x3.25") in the pattern shown.

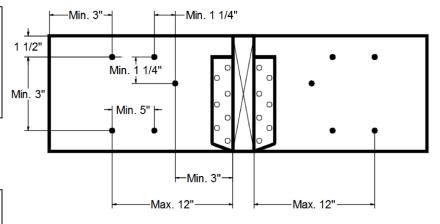
<u>L</u>		
Capacity	48.0 %	
Load	338.5lb.	
Total Yield Limit	705.4 lb.	
Cg	0.9998	
Cg См	1	
Yield Limit per Fastener	117.6 lb.	
Yield Mode	IV	
Load Combination	D+L	
Duration Factor	1 00	

Concentrated Load

Fasten at concentrated side load at 5-1-0 with a minimum of (6) - 16d Sinker Nails (.148x3.25") in the pattern shown.

•		
Capacity	41.3 %	
Load	291.0lb.	
Total Yield Limit	705.4 lb.	
Cg	0.9998	
Cg Cm	1	
Yield Limit per Fastener	117.6 lb.	
Yield Mode	IV	
Load Combination	D+L	
Duration Factor	1.00	

Min/Max fastener distances for Concentrated Side Loads



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

Pacific Woodtech Corp 1850 Park Lane Burlington, WA 98233 (800) 515-7570 www.pwtewp.com ICC-ES: ESR-2909 ESR-2403 APA: PR-L233 PR-L280

U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 30097 888-613-5078







Client: 84 Lumber-Fayetteville #2307 Project:

Address:

Caviness Land - CL3281 Lot 35 Winds Way

Date: 11/15/2024 Input by: Kyle Militzer

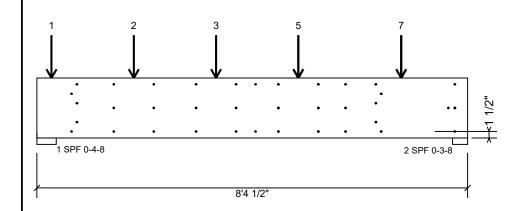
Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW

2.0E 2900Fb PWT LVL

1.750" X 14.000"

2-Ply - PASSED

Level: 2nd Flr





Page 5 of 5

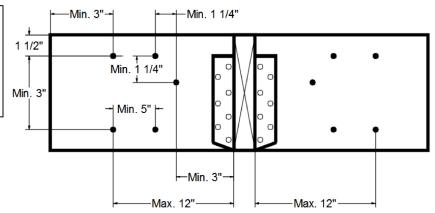
Multi-Ply Analysis

Concentrated Load

Fasten at concentrated side load at 7-1-0 with a minimum of (5) - 16d Sinker Nails (.148x3.25") in the pattern shown.

Capacity	88.4 %	
Load	519.5lb.	
Total Yield Limit	587.8 lb.	
Cg Cm	0.9998	
CM	1	
Yield Limit per Fastener	117.6 lb.	
Yield Mode	IV	
Load Combination	D+L	
Duration Factor	1.00	

Min/Max fastener distances for Concentrated Side Loads



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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U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 30097 888-613-5078









Client: 84 Lumber-Fayetteville #2307 Project: Address:

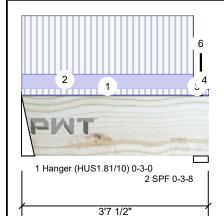
Caviness Land - CL3281 Lot 35 Winds Way

Date: 11/15/2024 Input by: Kyle Militzer

Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW

1.750" X 14.000" - PASSED FB₁ 2.0E 2900Fb PWT LVL

Level: 2nd Flr





Page 1 of 2

Member Inf	ormation						Rea	ctions	PATTE	RNED	lb (l	Jplift)			
Type:	Girder		Applicat	ion:	Floor		Brg	Directi	on	Live		Dead	Snow	Wind	Const
Plies:	1		Design	Method:	ASD		1	Vertical	I	470		130	0	0	0
Moisture Cond	lition: Dry		Building	Code:	IRC 2021		2	Vertical	I	412		171	0	0	0
Deflection LL:	360		Load Sh	naring:	No										
Deflection TL:	240		Deck:		Not Checked										
Importance:	Normal - I	I													
Temperature:	Temp <=	100°F													
General Load							Bea	rings							
Floor Live:	40 PSF						Bea	aring Le	ength	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
Dead:	10 PSF						1 - Haı	3.0 nger	000"	Vert	15%	130 / 470	600	L	D+L
Analysis Res	sults						2 -	SPF 3.	500"	Vert	22%	171 / 412	583	L	D+L
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case		•		•	_				
Moment	431 ft-lb	1'9 1/2"	13396 ft-lb	3%	D+L	L									

431 ft-lb 1'9 1/2" 13396 ft-lb Shear 126 lb 2'2" 4655 lb 3% L LL Defl inch 0.002 1'9 1/2" 0.107 (L/360) 2% ī. 1 (L/16270) TL Defl inch 0.003 1'9 1/2" 0.160 (L/240) 2% D+I 1 (L/12743)

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.001", Long Term = 0.001".
- 3 Fill all hanger nailing holes.
- 4 Left Header: SPF, Thickness: 2 1/2"
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.

7 Dottom me	ast be laterally braced at									
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 3-4-0	0-6-11	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 3-4-0		Тор	60 PLF	240 PLF	0 PLF	0 PLF	0 PLF	
3	Tie-In	3-4-0 to 3-7-8	0-7-7	Тор	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
4	Tie-In	3-5-2 to 3-7-8	0-4-9	Тор	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
5	Point	3-5-12		Тор	38 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
6	Point	3-5-12		Тор	16 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	•									

Continued on page 2...

Notes

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U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 888-613-5078







Client: 8
Project: 0
Address: [

84 Lumber-Fayetteville #2307 Caviness Land - CL3281 Lot 35 Winds Way Date: 11/15/2024 Input by: Kyle Militzer

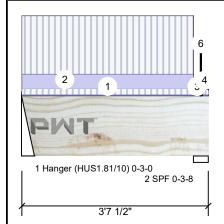
: Kyle Militzer

Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW

Wind 1.6 Const. 1.25 Comments

FB1 2.0E 2900Fb PWT LVL 1.750" X 14.000" - PASSED

Level: 2nd Flr



1'2" 1 3/4"

Page 2 of 2

.Continued from page 1

ID Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15

Bearing Length 0-3-8

Self Weight 7 PLF

Notes

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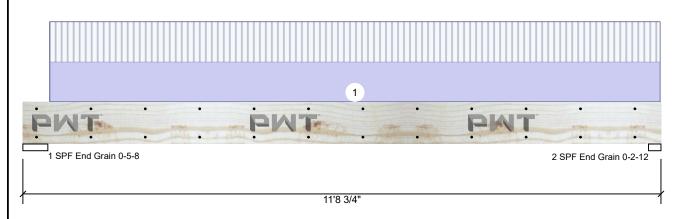
84 Lumber-Fayetteville #2307 Caviness Land - CL3281 Lot 35 Winds Way

Date: 11/15/2024 Input by: Kyle Militzer

Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW

DB₅ 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2nd Flr





3 1/2'

Page 1 of 2

Mambarlı	oformation.						Doo	Reactions PATTERNED lb (Uplift)								
Type: Plies: Moisture Cor Deflection LL Deflection TI	_: 360	II	Applicat Design Building Load St Deck:	Method: // Code: I	Floor ASD IRC 2021 No Not Checked		Brg 1 2		ection	Live 575 602	<u>и) ап</u>	Dead 631 655	Snow 0 0	Wind 0 0	Const 0 0	
Temperature General Loa	d	100°F					Bea									
Floor Live: Dead:	40 PSF 10 PSF						1 - End	SPF	Length 5.500"	Dir. Vert	Cap. 8%	631 / 575		Ld. Case L	Ld. Comb. D+L	
Analysis R Analysis Moment	Actual 3417 ft-lb	5'11 3/4"	Allowed 12416 ft-lb	Capacity 28%	D+L	Case L	Gra 2 - End Gra	SPF	2.750"	Vert	17%	655 / 602	1256	L	D+L	
Shear	1042 lb	1'2 3/4"	6151 lb	17%	D+L	L										

ī.

D+L

ī.

Design Notes

LL Defl inch 0.085 (L/1570)

TL Defl inch 0.178 (L/752)

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.093", Long Term = 0.139".
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.

5'11 3/4" 0.372 (L/360) 23%

5'11 3/4" 0.558 (L/240) 32%

- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings. Load Type

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25
1	Part. Uniform	0-6-0 to 11-8-8		Тор	105 PLF	105 PLF	0 PLF	0 PLF	0 PLF

9 PLF Self Weight

Notes

ID

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U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 888-613-5078

Comments







84 Lumber-Fayetteville #2307 Caviness Land - CL3281 Lot 35 Winds Way

Date: 11/15/2024

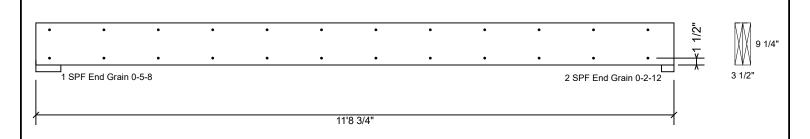
Input by: Kyle Militzer

Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW Page 2 of 2

DB₅ 2.0E 2900Fb PWT LVL 1.750" X 9.250"

2-Ply - PASSED

Level: 2nd Flr



Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %	
Load	0.0 PLF	
Yield Limit per Foot	235.2 PLF	
Yield Limit per Fastener	117.6 lb.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination		
Duration Factor	1.00	

Notes

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U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 30097 888-613-5078





Client: 84 Lumber-Fayetteville #2307
Project: Caviness Land - CL3281
Address: Lot 35 Winds Way

Date: 11/15/2024
Input by: Kyle Militzer

Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW

HD2 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSE

Application:

Design Method:

Building Code:

Load Sharing:

Deck:

Floor

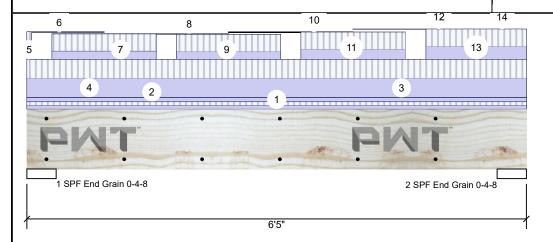
ASD

No

IRC 2021

Not Checked

2-Ply - PASSED Level: 2nd Flr





Page 1 of 3

Member Information

Type: Girder
Plies: 2
Moisture Condition: Dry
Deflection LL: 360
Deflection TL: 240
Importance: Normal - II

Temperature: Temp <= 100°F

General Load

Floor Live: 40 PSF Dead: 10 PSF

Reactions PATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	2771	2605	0	0	0
2	Vertical	2859	2797	0	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7142 ft-lb	3'2 5/16"	12416 ft-lb	58%	D+L	L
Shear	3484 lb	1'1 3/4"	6151 lb	57%	D+L	L
LL Defl inch	0.061 (L/1135)	3'2 3/8"	0.193 (L/360)	32%	L	L
TL Defl inch	0.119 (L/584)	3'2 1/2"	0.290 (L/240)	41%	D+L	L

Bearings

Bearing Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF 4.500" End Grain	Vert	46%	2605 / 2771	5376	L	D+L
2 - SPF 4.500" End Grain	Vert	48%	2797 / 2859	5656	L	D+L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.058", Long Term = 0.087"
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end 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 6-5-0		Тор	88 PLF	88 PLF	0 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 6-5-0		Тор	96 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Part. Uniform	0-0-0 to 6-5-0		Тор	5 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
4	Part. Uniform	0-0-0 to 6-5-0		Тор	450 PLF	450 PLF	0 PLF	0 PLF	0 PLF	
5	Part. Uniform	0-0-0 to 0-0-11		Тор	238 PLF	406 PLF	0 PLF	0 PLF	0 PLF	J4
6	Tapered Start	0-0-0		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
Continued on page	continued on page 2									

Continued on page 2...

Notes

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84 Lumber-Fayetteville #2307 Client: Project: Caviness Land - CL3281

Lot 35 Winds Way

11/15/2024 Date: Input by: Kyle Militzer

Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW

2.0E 2900Fb PWT LVL HD2 1.750" X 9.250"

Address:

Level: 2nd Flr 2-Ply - PASSED 12 10



Page 2 of 3

6 8 13 5 9 3 2 1 SPF End Grain 0-4-8 2 SPF End Grain 0-4-8 6'5'

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
	End	0-11-14			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
7	Part. Uniform	0-3-14 to 1-7-14		Тор	196 PLF	406 PLF	0 PLF	0 PLF	0 PLF	J4
8	Tapered Start	0-11-14		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	2-7-2			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
9	Part. Uniform	1-11-2 to 3-3-2		Тор	186 PLF	406 PLF	0 PLF	0 PLF	0 PLF	J4
10	Tapered Start	2-7-2		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	4-2-5			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
11	Part. Uniform	3-6-5 to 4-10-5		Тор	237 PLF	406 PLF	0 PLF	0 PLF	0 PLF	J4
12	Tapered Start	4-2-5		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	5-9-8			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
13	Part. Uniform	5-1-8 to 6-5-0		Тор	312 PLF	406 PLF	0 PLF	0 PLF	0 PLF	J4
14	Tapered Start	5-9-8		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	6-5-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				9 PLF					

Notes

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84 Lumber-Fayetteville #2307 Caviness Land - CL3281 Lot 35 Winds Way Date: 11/15/2024
Input by: Kyle Militzei

Input by: Kyle Militzer

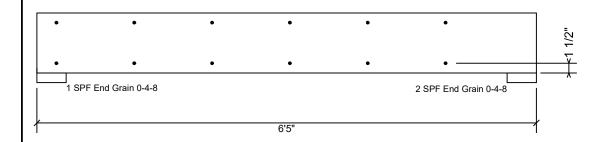
Job Name: CL3281-GR CP 3C-35 WW

Project #: CL3281-GR CP 3C-35 WW

HD2 2.0E 2900Fb PWT LVL

1.750" X 9.250"

2-Ply - PASSED Level: 2nd Flr





Page 3 of 3

Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	235.2 PLF
Yield Limit per Fastener	117.6 lb.
См	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

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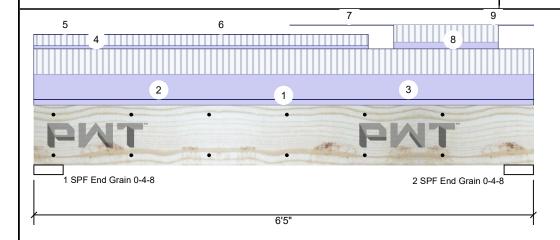
Client: 84 Lumber-Fayetteville #2307
Project: Caviness Land - CL3281
Address: Lot 35 Winds Way

Date: 11/15/2024 Input by: Kyle Militzer

Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW

HD2-A 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2nd Flr



Application:

Design Method:

Building Code:

Load Sharing:

Deck:

Floor

ASD

No

IRC 2021

Not Checked



Page 1 of 3

Member Information

Type: Girder

Plies: 2

Moisture Condition: Dry

Deflection LL: 360

Deflection TL: 240

Importance: Normal - II

Temperature: Temp <= 100°F

General Load
Floor Live: 40 PSF
Dead: 10 PSF

Reactions PATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	2091	2019	0	0	0
2	Vertical	2066	2046	0	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5380 ft-lb	3'2 9/16"	12416 ft-lb	43%	D+L	L
Shear	2653 lb	5'3 1/4"	6151 lb	43%	D+L	L
LL Defl inch	0.045 (L/1528)	3'2 1/2"	0.193 (L/360)	24%	L	L
TL Defl inch	0.090 (L/776)	3'2 1/2"	0.290 (L/240)	31%	D+L	L

Bearings

Bearing Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF 4.500" End Grain	Vert	35%	2019 / 2091	4110	L	D+L
2 - SPF 4.500" End Grain	Vert	35%	2046 / 2066	4112	L	D+L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.044", Long Term = 0.066".
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings.

	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 6-5-0		Тор	96 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight	
l	2	Part. Uniform	0-0-0 to 6-5-0		Тор	5 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight	
l	3	Part. Uniform	0-0-0 to 6-5-0		Тор	450 PLF	450 PLF	0 PLF	0 PLF	0 PLF		
l	4	Part. Uniform	0-0-0 to 4-3-8		Тор	67 PLF	201 PLF	0 PLF	0 PLF	0 PLF	J10	
l	5	Tapered Start	0-0-0		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF		
l		End	1-3-8			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF		

Continued on page 2...

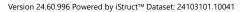
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Pacific Woodtech Corp 1850 Park Lane Burlington, WA 98233 (800) 515-7570 www.pwtewp.com ICC-ES: ESR-2909 ESR-2403 APA: PR-L233 PR-L280 U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 30097 888-613-5078









Client: 84 Lumber-Fayetteville #2307
Project: Caviness Land - CL3281
Address: Lot 35 Winds Way

Date: 11/15/2024
Input by: Kyle Militzer

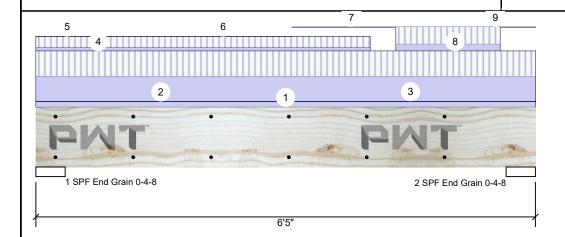
Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW

HD2-A 2.0E 2900Fb PWT LVL

1.750" X 9.250"

2-Ply - PASSED

Level: 2nd Flr





Page 2 of 3

Continued for	rom page 1									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
6	Tapered Start	1-3-8		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	3-3-8			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
7	Tapered Start	3-3-8		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	5-3-8			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
8	Part. Uniform	4-7-8 to 5-11-8		Тор	137 PLF	300 PLF	0 PLF	0 PLF	0 PLF	J10
9	Tapered Start	5-3-8		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	6-5-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				9 PLF					

Notes

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Client: 84 Lumb
Project: Cavines
Address: Lot 35

84 Lumber-Fayetteville #2307 Caviness Land - CL3281 Lot 35 Winds Way Date: 11/15/2024
Input by: Kyle Militzer

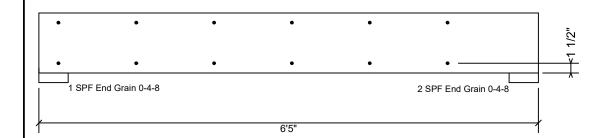
Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW

HD2-A 2.0E 2900Fb PWT LVL

1.750" X 9.250"

2-Ply - PASSED

Level: 2nd Flr





Page 3 of 3

Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	235.2 PLF
Yield Limit per Fastener	117.6 lb.
CM	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

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84 Lumber-Fayetteville #2307 Caviness Land - CL3281 Lot 35 Winds Way

Date: Input by:

Kyle Militzer Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW Page 1 of 3

Const

Ld. Comb.

D+0.75(L+S)

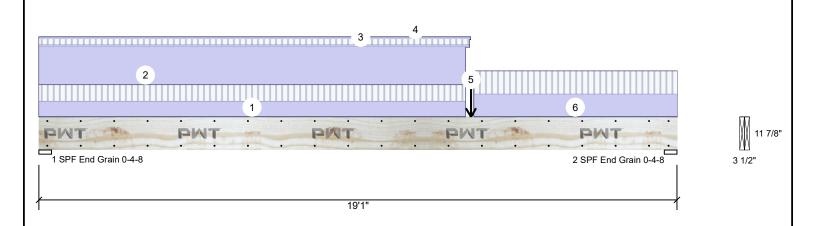
D+L

0

0

11/15/2024

HD3 2.0E 2900Fb PWT LVL 1.750" X 11.875" 2-Ply - PASSED Level: 2nd Flr



1-SPF 4.500"

2 - SPF 4.500"

End Grain

End Grain

Member Inforn	nation			Rea	ctions PATT	ERNED	lb (Uplift)		
Type:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind
Plies:	2	Design Method:	ASD	1	Vertical	616	1646	145	0
Moisture Condition:	: Dry	Building Code:	IRC 2021	2	Vertical	742	1534	312	0
Deflection LL:	360	Load Sharing:	No						
Deflection TL:	240	Deck:	Not Checked						
Importance:	Normal - II								
Temperature:	Temp <= 100°F								
General Load				Bea	rings				
Floor Live:	40 PSF			Bea	aring Length	Dir.	Cap. React D	/L lb Total	Ld. Case

Analysis Results

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	11434 ft-lb	10'8 11/16"	19902 ft-lb	57%	D+L	L
Shear	2104 lb	17'8 5/8"	7897 lb	27%	D+L	L
LL Defl inch	0.230 (L/965)	10' 7/8"	0.615 (L/360)	37%	0.75(L+S)	L
TL Defl inch	0.757 (L/292)	9'9 11/16"	0.923 (L/240)	82%	D+0.75(L+S)	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.528", Long Term = 0.792".
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.

10 PSF

- 7 Top must be laterally braced at a maximum of 9'7 15/16" o.c.

8 Bottom must	be laterally braced	at end 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 12-9-0		Тор	40 PLF	40 PLF	0 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 12-9-0		Тор	94 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Tapered Start	0-0-0		Тор	5 PLF	14 PLF	0 PLF	0 PLF	0 PLF	
	End	12-10-8			5 PLF	14 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-0-0 to 12-10-14		Тор	6 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
5	Point	12-11-1		Тор	757 lb	321 lb	457 lb	0 lb	0 lb	PL3 Wall Self Weight FB7

Continued on page 2...

Notes

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19%

20%

Vert

Vert

1646 / 616

1534 / 790

2262 L

2325 L

888-613-5078

U.S.A



U.S. Lumber 2160 Satellite Blvd., Suite 450, GA



Client: 84 Lumber-Fayetteville #2307
Project: Caviness Land - CL3281

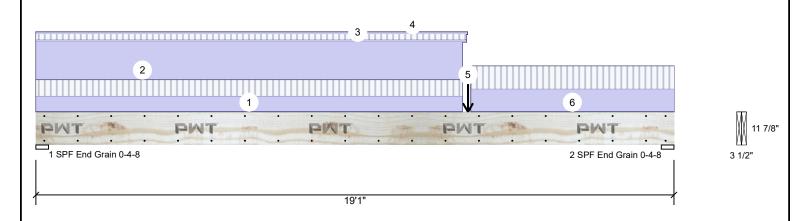
Caviness Land - CL3281 Lot 35 Winds Way Date: 11/15/2024
Input by: Kyle Militzer

Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW Page 2 of 3

HD3 2.0E 2900Fb PWT LVL 1.750" X 11.875" 2-Ply - PASSED

Address:

Level: 2nd Flr



Continued	from	page	1
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ID Location Trib Width Dead 0.9 Load Type Side Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments Bearing Length 0-3-8 57 PLF 6 Part. Uniform 13-0-2 to 19-1-0 Top 57 PLF 0 PLF 0 PLF 0 PLF Self Weight 12 PLF

Notes

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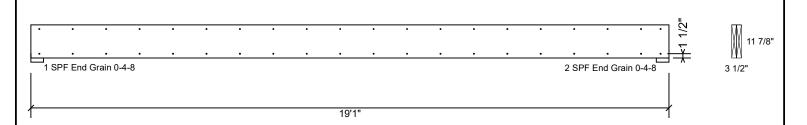


84 Lumber-Fayetteville #2307 Caviness Land - CL3281 Lot 35 Winds Way

Date: 11/15/2024 Input by: Kyle Militzer

Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW Page 3 of 3

2.0E 2900Fb PWT LVL 1.750" X 11.875" HD3 2-Ply - PASSED Level: 2nd Flr



Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	235.2 PLF
Yield Limit per Fastener	117.6 lb.
См	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

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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U.S. Lumber 2160 Satellite Blvd., Suite 450, GA U.S.A 30097 888-613-5078







Client: 84 Lumber-Fayetteville #2307 Project: Address: Lot 35 Winds Way

Date: Input by: Caviness Land - CL3281

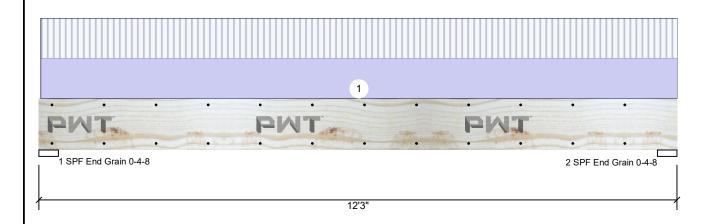
Kyle Militzer

Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW

11/15/2024

2.0E 2900Fb PWT LVL 1.750" X 11.875" 2-Ply - PASSED HD4

Level: 2nd Flr



11 7/8" 3 1/2'

Page 1 of 2

N	Member Intorm	ation
	Type:	Girder
	Plies:	2
	Moisture Condition:	Dry
	Deflection LL:	360
	Deflection TL:	240
	Importance:	Normal - II
	Temperature:	Temp <= 100°F
	General Load	
	Floor Live:	40 PSF
	Dead:	10 PSF

Application: Floor Design Method: ASD **Building Code:** IRC 2021 Load Sharing: No Deck: Not Checked

D+L

Reactions PATTERNED Ib (Uplift) Live Wind Const Brg Direction Dead Snow Vertical 1302 1375 0 0 0 1 1384 O O 0 2 Vertical 1311

Analysis Results Comb. Capacity Case Actual Location Allowed 37% 7431 ft-lb D+I 6'1 1/2" 19902 ft-lb L 2094 lb 1'4 3/8" 7897 lb 27% D+L L LL Defl inch 0.100 (L/1394) 6'1 1/2" 0.388 (L/360) 26% L ī

6'1 1/2" 0.581 (L/240) 35%

Bearings

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1375 / 1302 1 - SPF 4.500" Vert D+I End Grain 2 - SPF 4.500" 1384 / 1311 D+L Vert 23% 2694 L Fnd Grain

Design Notes

TL Defl inch 0.206 (L/678)

Analysis

Moment

Shear

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.106", Long Term = 0.158".
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
- 4 Refer to last page of calculations for fasteners required for specified loads.
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be laterally braced at end bearings.
- 8 Bottom must be laterally braced at end bearings.

ID Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments 214 PLF Part. Uniform 0-0-8 to 12-3-0 Тор 214 PLF 0 PLF 0 PLF 0 PLF 1

Self Weight 12 PLF

Notes

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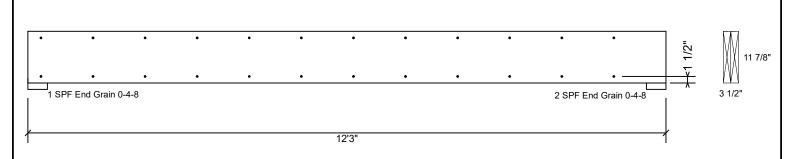


84 Lumber-Fayetteville #2307 Caviness Land - CL3281 Lot 35 Winds Way

Date: 11/15/2024 Input by: Kyle Militzer

Job Name: CL3281-GR CP 3C-35 WW Project #: CL3281-GR CP 3C-35 WW Page 2 of 2

2.0E 2900Fb PWT LVL 1.750" X 11.875" HD4 2-Ply - PASSED Level: 2nd Flr



Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	235.2 PLF
Yield Limit per Fastener	117.6 lb.
См	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1 00

Notes

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