

84 Lumber-Fayetteville #2307 CC2724-Lot 501 Creekside Oaks South CC2724-Lot 501 Creekside Oaks

Comb.

D+L

1

D+I

Capacity

2%

14%

Date: 1/31/2025 Input by:

Will Evans Job Name: 202501-68922 Project #: 68922

Reactions PATTERNED Ib (Uplift)

Live

351

420

Direction

Vertical

Vertical

Brg

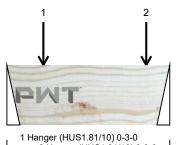
1

2

Level: 2nd Floor

FB3 2.0E 2900Fb PWT LVL

1.750" X 14.000" - PASSED



2 Hanger (HUS1.81/10) 0-3-0

3'2"



Const

0

0

Page 1 of 1

Member Infor	mation		
Type:	Girder	Application:	Floor
Plies:	1	Design Method:	ASD
Moisture Condition	n: Dry	Building Code:	IRC 2021
Deflection LL:	360	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		
General Load			
Floor Live:	40 PSF		
Dead:	10 PSF		
Analysis Resul	ts		

Location Allowed

8 1/2" 13396 ft-lb

1'9" 4655 lb

1' 13/16" 0.093 (L/360) 1%

1' 5/8" 0.140 (L/240) 1%

Bearings	5						
Bearing	Length	Dir.	Cap. R	leact D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	3.000"	Vert	15%	254 / 351	605	L	D+L
2 - Hanger	3.000"	Vert	17%	263 / 420	683	L	D+L

254

263

Snow

0

0

Wind

0

0

Design Notes

LL Defl inch 0.001

TL Defl inch 0.002

Analysis

Moment

Shear

- 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"

Actual

314 ft-lb

673 lb

(L/31145)

(L/18189)

- 5 Right Header: DF, Thickness: 3 1/2"
- 6 Girders are designed to be supported on the bottom edge only.
- 7 Top must be laterally braced at end bearings.

o Dollon	o 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	Point	0-8-8		Far Face	272 lb	386 lb	0 lb	0 lb	0 lb	J3	
2	Point	2-8-8		Far Face	223 lb	385 lb	0 lb	0 lb	0 lb	J3	
	Self Weight				7 PI F						

Case

L

L

ī

1

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 888-613-5078







84 Lumber-Fayetteville #2307

CC2724-Lot 501 Creekside Oaks South

CC2724-Lot 501 Creekside Oaks South

Job Name: 202501-68922 Project #: 68922

Date:

2-Ply - PASSED

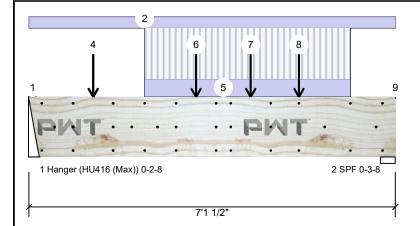
Input by:

2.0E 2900Fb PWT LVL 1.750" X 14.000" FB4

Level: 2nd Floor

1/31/2025

Will Evans



Application:

Design Method:

Building Code:

Load Sharing:

Deck:

Floor

ASD

No

IRC 2021

Not Checked



Page 1 of 4

Member	Information
Type:	Girder

Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240

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

General Load

40 PSF Floor Live: 10 PSF Dead:

Reactions PATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1693	1152	0	0	0
2	Vertical	1445	1086	0	0	0

Bearings

Н								
l	Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Coml
	1 -	2.500"	Vert	43%	1152 / 1693	2845	L	D+L
l	Hanger							
	2 - SPF	3.500"	Vert	49%	1086 / 1445	2531	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5325 ft-lb	3'4 15/16"	26792 ft-lb	20%	D+L	L
Shear	2930 lb	1'4 1/2"	9310 lb	31%	D+L	L
LL Defl inch	0.023 (L/3538)	3'5 3/8"	0.225 (L/360)	10%	L	L
TL Defl inch	0.039 (L/2057)	3'6 1/8"	0.338 (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 = 0.016", Long Term = 0.025".
- 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 Fill all hanger nailing holes.
- 7 Left Header: DF, Thickness: 3 1/2"
- 8 Girders are designed to be supported on the bottom edge only.
- 9 Top loads must be supported equally by all plies.
- 10 Top must be laterally braced at end bearings.
- 11 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 0-1-12		Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
2	Part. Uniform	0-0-0 to 7-1-8		Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Point	1-3-0		Far Face	185 lb	511 lb	0 lb	0 lb	0 lb	J4

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: Project:

84 Lumber-Fayetteville #2307 CC2724-Lot 501 Creekside Oaks South

CC2724-Lot 501 Creekside Oaks

South

Input by: Will Evans Job Name: 202501-68922

Date:

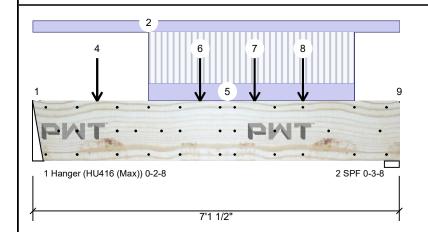
Project #: 68922

1.750" X 14.000" 2.0E 2900Fb PWT LVL 2-Ply - PASSED FB4

Address:

Level: 2nd Floor

1/31/2025





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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
4	Point	1-3-0		Near Face	264 lb	495 lb	0 lb	0 lb	0 lb	J6
5	Part. Uniform	2-3-0 to 6-3-0		Far Face	97 PLF	277 PLF	0 PLF	0 PLF	0 PLF	
6	Point	3-3-0		Near Face	248 lb	446 lb	0 lb	0 lb	0 lb	J6
7	Point	4-3-12		Near Face	510 lb	257 lb	0 lb	0 lb	0 lb	J6
8	Point	5-3-0		Near Face	107 lb	321 lb	0 lb	0 lb	0 lb	J6
9	Part. Uniform	7-1-8 to 7-1-8		Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
	Self Weight				14 PLF					

Notes

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Client: 84 Lumber-Fayetteville #2307
Project: CC2724-Lot 501 Creekside O

Address:

CC2724-Lot 501 Creekside Oaks South CC2724-Lot 501 Creekside Oaks

Date: 1/31/2025
Input by: Will Evans
Job Name: 202501-68922

Project #: 68922

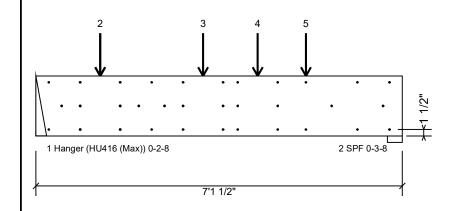
FB4 2.0E 2900Fb PWT LVL

1.750" X 14.000"

South

2-Ply - PASSED

Level: 2nd Floor





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	53.0 %
Load	187.0 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 1-3-0 with a minimum of (6) – 16d Sinker Nails (.148x3.25") in the pattern shown.

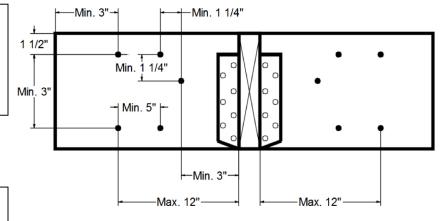
<u>L</u>		
Capacity	53.8 %	
Load	379.5lb.	
Total Yield Limit	705.4 lb.	
Cg	0.9998	
Cg См	1	
Yield Limit per Fastener	117.6 lb.	
Yield Mode	IV	
Load Combination	D+L	
Duration Factor	1.00	

Concentrated Load

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

Capacity 49.2 % Load 347.0lb. 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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ICC-ES: ESR-2909 ESR-24 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:

CC2724-Lot 501 Creekside Oaks South CC2724-Lot 501 Creekside Oaks

Date: Input by:

1/31/2025 Will Evans

Job Name: 202501-68922 Project #: 68922

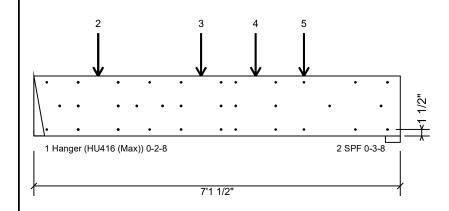
2.0E 2900Fb PWT LVL

1.750" X 14.000"

South

2-Ply - PASSED

Level: 2nd Floor





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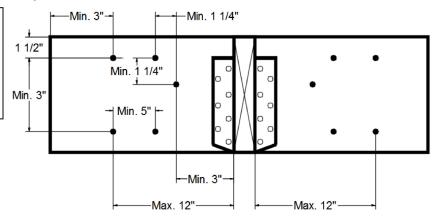
Multi-Ply Analysis

Concentrated Load

Fasten at concentrated side load at 4-3-12 with a minimum of (6) - 16d Sinker Nails (.148x3.25") in the pattern shown.

<u>.</u>		
Capacity	54.4 %	_
Load	383.5lb.	
Total Yield Limit	705.4 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

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This design is valid until 9/3/2027



CSD DESIGN



84 Lumber-Fayetteville #2307 CC2724-Lot 501 Creekside Oaks South

CC2724-Lot 501 Creekside Oaks South

202501-68922 Job Name: Project #: 68922

Date:

Input by:

Reactions PATTERNED Ib (Uplift)

Live

3160

405

605 (-406)

Dir.

Vert

Vert

Vert

Dead

(-60)

2451

332

Cap. React D/L lb

56%

11%

-103 / 604

2506 / 3218

320 / 392

Snow

0

0

0

Total Ld. Case

501 L

5724 LL

712 _L

(-552)

1/31/2025

Will Evans

Level: 2nd Floor

Page 1 of 3

2.0E 2900Fb PWT LVL FB₅

1.750" X 14.000"

2-Ply - PASSED

Brg

1

2

3

Bearings Bearing Length

End Grain 2 - SPF 3.500"

End Grain 3 -

Hanger

Direction

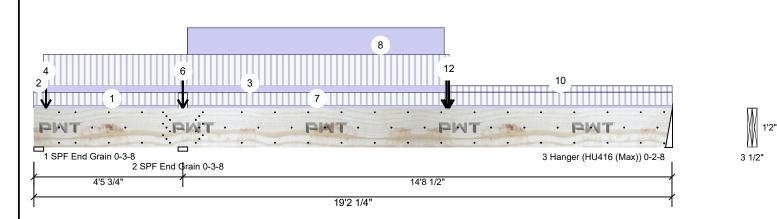
Vertical

Vertical

Vertical

1 - SPF 3.500'

2.500"



Member Information						
Type:	Girder	Application:	Floor			
Plies:	2	Design Method:	ASD			
Moisture Condition:	Dry	Building Code:	IRC 2021			
Deflection LL:	360	Load Sharing:	No			
Deflection TL:	240	Deck:	Not Checked			
Importance:	Normal - II					
Temperature:	Temp <= 100°F					
General Load						
Floor Live:	40 PSF					
Dead:	10 PSF					

Analysis	Results
----------	---------

•						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-3886 ft-lb	4'5 3/4"	26792 ft-lb	15%	D+L	LL
Pos Moment	3249 ft-lb	12'4 7/8"	26792 ft-lb	12%	D+L	_L
Shear	1412 lb	5'9 1/2"	9310 lb	15%	D+L	LL
LL Defl inch	0.040 (L/4345)	12'1 15/16"	0.485 (L/360)	8%	L	_L
TL Defl inch	0.078 (L/2254)	12'1 3/8"	0.728 (L/240)	11%	D+L	_L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Dead Load Deflection: Instant = 0.037", Long Term = 0.056".
- 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 Fill all hanger nailing holes.
- 7 Right Header: DF, Thickness: 5 1/4"
- 8 Girders are designed to be supported on the bottom edge only.
- 9 Top loads must be supported equally by all plies.
- 10 Tie-down connection required at bearing 1 for uplift 552 lb (Combination D+L, Load Case L).
- 11 Top must be laterally braced at end bearings.
- 12 Bottom must be laterally braced at end bearings.

Notes

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Manufacturer Info

Pacific Woodtech Corp

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

Wind

0

0

0

Const

Ld. Comb.

D+L(D+L)

D+L

D+L

0

0 0





FB5

2.0E 2900Fb PWT LVL

Client: Project:

Address:

84 Lumber-Fayetteville #2307

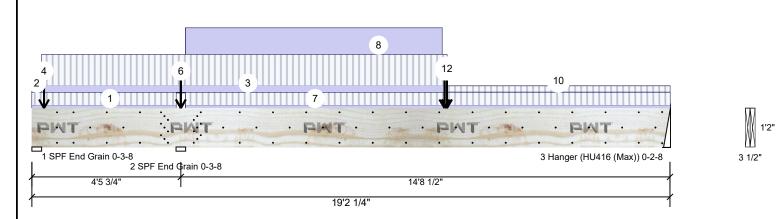
CC2724-Lot 501 Creekside Oaks South CC2724-Lot 501 Creekside Oaks

Date: 1/31/2025 Input by: Will Evans Job Name: 202501-68922

Project #: 68922

South 2-Ply - PASSED 1.750" X 14.000"

Level: 2nd Floor



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 4-4-0	0-8-6	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 0-3-8	0-3-10	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
3	Tie-In	0-3-8 to 12-5-12	1-8-8	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
4	Point	0-4-6		Near Face	263 lb	420 lb	0 lb	0 lb	0 lb	FB3
5	Point	4-5-12		Тор	9 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
6	Point	4-5-12		Far Face	1152 lb	1693 lb	0 lb	0 lb	0 lb	FB4
7	Tie-In	4-7-8 to 19-2-4	0-8-6	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
8	Part. Uniform	4-7-8 to 12-4-0		Тор	60 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
9	Point	12-4-14		Near Face	149 lb	194 lb	0 lb	0 lb	0 lb	FB3
10	Tie-In	12-5-12 to 19-2-4	0-3-10	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
11	Point	12-5-12		Тор	6 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
12	Point	12-5-12		Тор	51 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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Page 2 of 3







84 Lumber-Fayetteville #2307 CC2724-Lot 501 Creekside Oaks South

CC2724-Lot 501 Creekside Oaks

Date: 1/31/2025 Input by: Will Evans Job Name: 202501-68922

Project #:

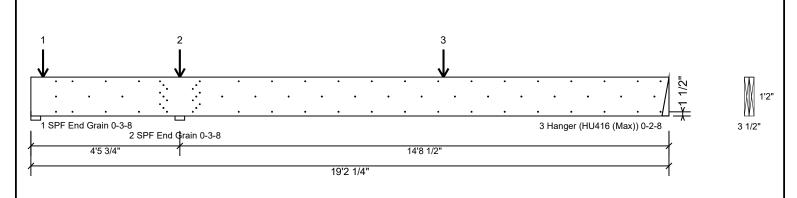
South

2.0E 2900Fb PWT LVL FB₅

1.750" X 14.000"

2-Ply - PASSED

68922 Level: 2nd Floor



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	0.0 %
Load	0.0 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	
Duration Factor	1.00

Concentrated Load

Fasten at concentrated side load at 0-4-6 with a minimum of (3) - 16d Sinker Nails (.148x3.25") in the pattern shown.

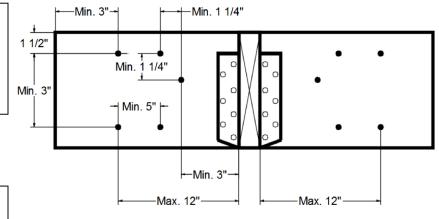
partie se		
Capacity	96.8 %	
Load	341.5lb.	
Total Yield Limit	352.7 lb.	
Cg	0.9998	
Cg См	1	
Yield Limit per Fastener	117.6 lb.	
Yield Mode	IV	
Load Combination	D+L	
Duration Factor	1.00	

Concentrated Load

Fasten at concentrated side load at 4-5-12 with a minimum of (18) - 16d Sinker Nails (.148x3.25") in the pattern shown.

P 4. 444 - 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		
Capacity	67.2 %	
Load	1422.5lb.	
Total Yield Limit	2116.2 lb.	
Cg	0.9998	
См	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

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Manufacturer Info Pacific Woodtech Corp

PR-L233 PR-L280

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Page 3 of 3







84 Lumber-Fayetteville #2307

CC2724-Lot 501 Creekside Oaks South

CC2724-Lot 501 Creekside Oaks

South

Date: 1/31/2025 Input by: Will Evans Job Name: 202501-68922

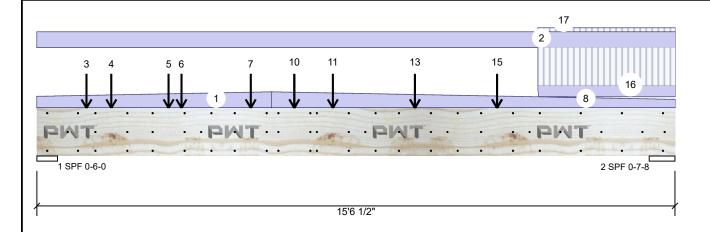
Project #: 68922

2.0E 2900Fb PWT LVL FB6

1.750" X 14.000"

3-Ply - PASSED

Level: 2nd Floor





Page 1 of 6

Member	Information
--------	-------------

Type:	Girder
Plies:	3
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: Yes

Deck:

Not Checked

Reactions PATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1877 (-38)	2761	0	0	0
2	Vertical	1789 (-135)	2294	0	0	0

Bearings

Bearing	Lengin	DII.	Сар. г	React D/L ID	iotai	La. Case	La. Cor
1 - SPF	6.000"	Vert	35%	2761 / 1877	4638	L	D+L
2 - SPF	7.500"	Vert	24%	2294 / 1789	4083	L	D+L

Analysis Results

Dead:

I	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
ı	Moment	15663 ft-lb	6'11 3/16"	41795 ft-lb	37%	D+L	L
ı	Shear	4671 lb	1'8"	13965 lb	33%	D+L	L
ı	LL Defl inch	0.110 (L/1583)	7'6 5/16"	0.485 (L/360)	23%	L	L
ı	TL Defl inch	0.269 (L/648)	7'5 7/8"	0.727 (L/240)	37%	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.159", Long Term = 0.239".
- 3 Fasten all plies using 3 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Nail from both sides. 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 a maximum of 13'5 9/16" o.c.

9 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	Tapered Start	0-0-0		Тор	73 PLF	0 PLF	0 PLF	0 PLF	0 PLF	GE
	End	5-8-8			100 PLF	0 PLF	0 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 15-6-8		Тор	96 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Point	1-2-8		Far Face	44 lb	175 lb	0 lb	0 lb	0 lb	J11
4	Point	1-9-12		Far Face	332 lb	405 lb	0 lb	0 lb	0 lb	FB5

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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Manufacturer Info

PR-L233 PR-L280

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





.Continued from page 1

8

Tapered Start

Client: Project: Address: 84 Lumber-Fayetteville #2307 CC2724-Lot 501 Creekside Oaks So

CC2724-Lot 501 Creekside Oaks South CC2724-Lot 501 Creekside Oaks

CC2724-Lot 501 Creekside Oak South

Input by: Will Evans
Job Name: 202501-68922

Date:

Project #: 68922

FB6 2.0E 2900Fb PWT LVL

1.750" X 14.000"

3-Ply - PASSED

Level: 2nd Floor

0 PLF

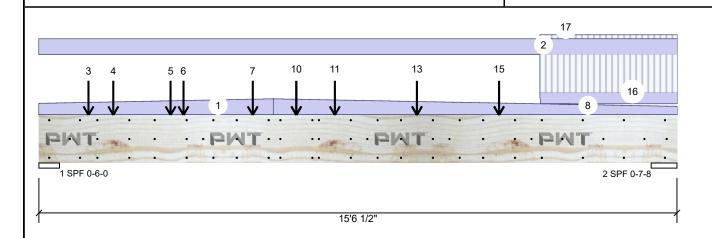
0 PI F

0 PLF

0 PI F

GF

1/31/2025





5 1/4"

Page 2 of 6

ID .	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
5	Point	3-2-8		Far Face	279 lb	495 lb	0 lb	0 lb	0 lb	J6
6	Point	3-6-4		Тор	2 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
7	Point	5-2-8		Far Face	267 lb	446 lb	0 lb	0 lb	0 lb	J6

100 PLF

Top

55 PLF 0 PLF End 15-6-8 0 PLF 0 PLF 0 PLF 9 Point 6-3-4 Тор 2 lb 0 lb 0 lb 0 lb 0 lb Wall Self Weight Bearing Length 0-3-8 10 Point 6-3-4 Far Face 510 lb 257 lb 0 lb 0 lb 0 lb J6 J6 11 Point 7-2-8 Far Face 107 lb 321 lb 0 lb 0 lb 0 lb 12 Point 9-2-8 Far Face 105 lb 392 lb 0 lb 0 lb 0 lb J10 13 Point 9-2-8 Far Face 0 lb -57 lb 0 lb 0 lb 0 lb J10 14 Point 11-2-8 Far Face 99 lb 392 lb 0 lb 0 lb 0 lb J10 -32 lb 11-2-8 0 lb 0 lb J10 15 Point Far Face 0 lb 0 lb 12-2-8 to 15-6-8 Far Face 70 PLF 235 PLF 0 PLF 0 PLF 0 PLF 16 Part. Uniform -25 PLF 0 PLF 0 PLF 17 Part. Uniform 12-2-8 to 15-6-8 Far Face 0 PLF 0 PLF

Self Weight 21 PLF

5-8-8

Notes

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FB6

Client: Project: Address: 84 Lumber-Fayetteville #2307 CC2724-Lot 501 Creekside Oaks South

Date: Input by: CC2724-Lot 501 Creekside Oaks

Project #:

1/31/2025

Will Evans Job Name: 202501-68922 Page 3 of 6

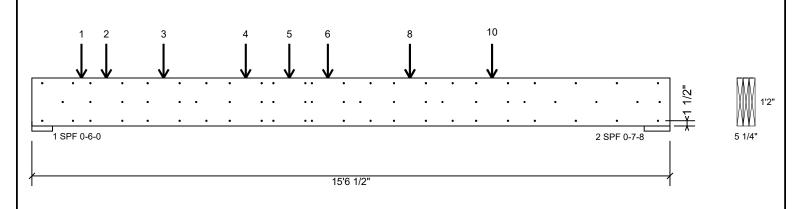
South

2.0E 2900Fb PWT LVL

1.750" X 14.000"

3-Ply - PASSED

68922 Level: 2nd Floor



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. Nail from both sides. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	57.6 %
Load	203.3 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 1-9-12 with a minimum of (6) - 16d Sinker Nails (.148x3.25") in the pattern shown. Nail from both sides.

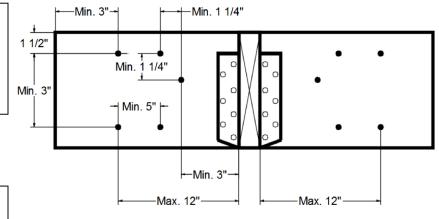
<u>!</u>		
Capacity	69.7 %	
Load	491.3lb.	
Total Yield Limit	705.4 lb.	
Cg	0.9998	
См	1	
Yield Limit per Fastener	117.6 lb.	
Yield Mode	IV	
Load Combination	D+L	
Duration Factor	1.00	

Concentrated Load

Fasten at concentrated side load at 3-2-8 with a minimum of (6) - 16d Sinker Nails (.148x3.25") in the pattern shown. Nail from both sides.

Capacity	73.2 %	
Load	516.0lb.	
Total Yield Limit	705.4 lb.	
Cg Cm	0.9998	
См	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

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888-613-5078

U.S.A



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





84 Lumber-Fayetteville #2307 CC2724-Lot 501 Creekside Oaks South CC2724-Lot 501 Creekside Oaks

Date: Input by: 1/31/2025 Will Evans

Job Name: 202501-68922

Page 4 of 6

Project #: 68922

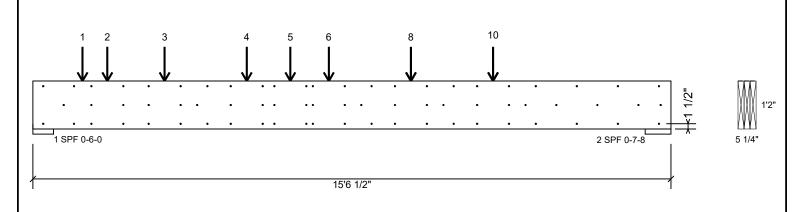
2.0E 2900Fb PWT LVL FB₆

1.750" X 14.000"

South

3-Ply - PASSED

Level: 2nd Floor



Multi-Ply Analysis

Concentrated Load

Fasten at concentrated side load at 5-2-8 with a minimum of (6) - 16d Sinker Nails (.148x3.25") in the pattern shown. Nail from both sides.

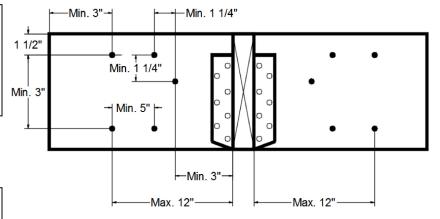
Capacity	67.4 %	
Load	475.3lb.	
Total Yield Limit	705.4 lb.	
Cg	0.9998	
Cg Cm	1	
Yield Limit per Fastener	117.6 lb.	
Yield Mode	IV	
Load Combination	D+L	
Duration Factor	1.00	

Concentrated Load

Fasten at concentrated side load at 6-3-4 with a minimum of (6) - 16d Sinker Nails (.148x3.25") in the pattern shown. Nail from both sides.

pattern snown. Ivan ne	in both sides.	
Capacity	72.5 %	
Load	511.3lb.	
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

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FB₆

2.0E 2900Fb PWT LVL

Client: Project: Address: 84 Lumber-Fayetteville #2307 CC2724-Lot 501 Creekside Oaks South CC2724-Lot 501 Creekside Oaks

Date:
th Input by:
S Job Name

1/31/2025 Will Evans Page 5 of 6

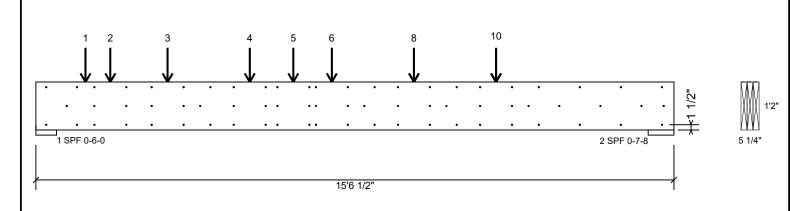
Job Name: 202501-68922
Project #: 68922

South

1.750" X 14.000"

Project #:

Level: 2nd Floor



Multi-Ply Analysis

Concentrated Load

Fasten at concentrated side load at 7-2-8 with a minimum of (6) – 16d Sinker Nails (.148x3.25") in the pattern shown. Nail from both sides.

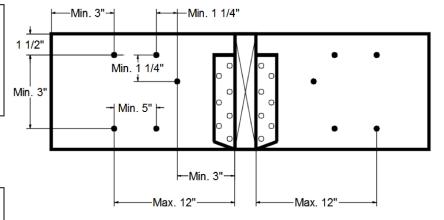
Capacity	40.5 %	
Load	285.3lb.	
Total Yield Limit	705.4 lb.	
Cg	0.9998	
Cg Cm	1	
Yield Limit per Fastener	117.6 lb.	
Yield Mode	IV	
Load Combination	D+L	
Duration Factor	1.00	

Concentrated Load

Fasten at concentrated side load at 9-2-8 with a minimum of (6) – 16d Sinker Nails (.148x3.25") in the pattern shown. Nail from both sides

pattern snown. Nan no	iii botti sides.	
Capacity	47.0 %	
Load	331.3lb.	
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

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84 Lumber-Fayetteville #2307 CC2724-Lot 501 Creekside Oaks South

CC2724-Lot 501 Creekside Oaks

South

Input by: Will Evans Job Name: 202501-68922 Project #: 68922

Date:

Level: 2nd Floor

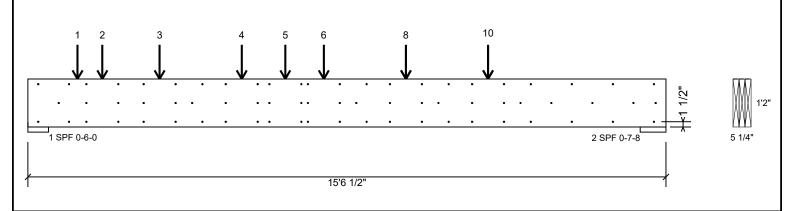
1/31/2025

Page 6 of 6

2.0E 2900Fb PWT LVL FB₆

1.750" X 14.000"

3-Ply - PASSED



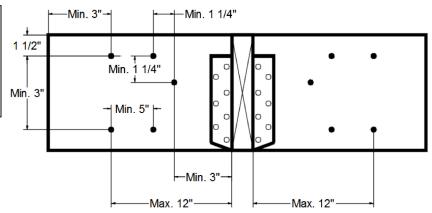
Multi-Ply Analysis

Concentrated Load

Fasten at concentrated side load at 11-2-8 with a minimum of (6) - 16d Sinker Nails (.148x3.25") in the pattern shown. Nail from both sides.

Capacity	46.4 %	
Load	327.3lb.	
Total Yield Limit	705.4 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

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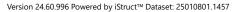
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84 Lumber-Fayetteville #2307 CC2724-Lot 501 Creekside Oaks South

CC2724-Lot 501 Creekside Oaks

South

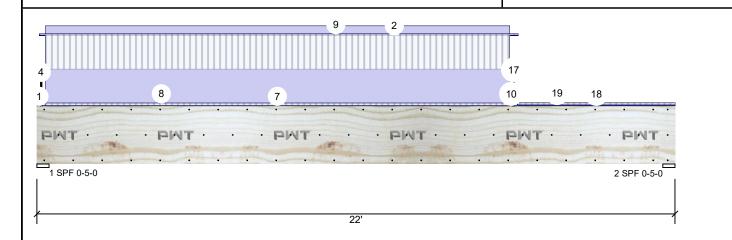
Date: 1/31/2025 Input by: Will Evans Job Name: 202501-68922

Project #: 68922

2.0E 2900Fb PWT LVL

1.750" X 24.000"

3-Ply - PASSED Level: 2nd Floor



ember Information				Reactions PATTERNED Ib (Uplift)					
Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind	Const
3	Design Method:	ASD	1	Vertical	4895 (-2)	6143	0	0	0
: Dry	Building Code:	IRC 2021	2	Vertical	4652 (-5)	5564	0	0	0
360	Load Sharing:	Yes							
240	Deck:	Not Checked							
Normal - II									
Temp <= 100°F									
			Bear	rings					
40 PSF			Bea	aring Length	n Dir.	Cap. React D/L lb	Total	Ld. Case	Ld. Comb.
10 PSF			1-	SPF 5.000"	Vert	99% 6143 / 4895	11038	L	D+L
			2 -	SPF 5.000"	Vert	92% 5564 / 4652	10216	L	D+L
	Girder 3 : Dry 360 240 Normal - II Temp <= 100°F	Girder 3 Design Method: Building Code: Load Sharing: Desk: Normal - II Temp <= 100°F 40 PSF 10 PSF	Girder 3	Sirder Application: Floor Brg	Application: Floor Brg Direction 3	Application: Floor Brg Direction Live	Application: Floor Brg Direction Live Dead	Application: Floor Brg Direction Live Dead Snow	Sirder Application: Floor Brg Direction Live Dead Snow Wind

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	62537 ft-lb	11'9 9/16"	110274 ft-lb	57%	D+L	L
Shear	10052 lb	19'7"	23940 lb	42%	D+L	L
LL Defl inch	0.217 (L/1179)	11'2 15/16"	0.710 (L/360)	31%	L	L
TL Defl inch	0.482 (L/531)	11'2 9/16"	1.066 (L/240)	45%	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.265", Long Term = 0.397".
- 3 Fasten all plies using 3 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Nail from both sides. 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 a maximum of 5'2 7/16" o.c.
- 8 Bottom must be laterally braced at end bearings

O DOMONII I	must be laterally braced at	cha 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 0-3-8	1-0-2	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
2	Tie-In	0-1-2 to 16-7-0	0-2-12	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
3	Point	0-1-12		Тор	4 lb	0 lb	0 lb	0 lb	0 lb	GE
	Bearing Length	0-3-8								
4	Point	0-1-12		Тор	35 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								

Continued on page 2...

Notes

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

Page 1 of 3

5 1/4"







..Continued from page 1

Client: Project: Address: 84 Lumber-Fayetteville #2307 CC2724-Lot 501 Creekside Oaks South CC2724-Lot 501 Creekside Oaks Date: Input by:

1/31/2025 y: Will Evans me: 202501-6892

Job Name: 202501-68922 Project #: 68922

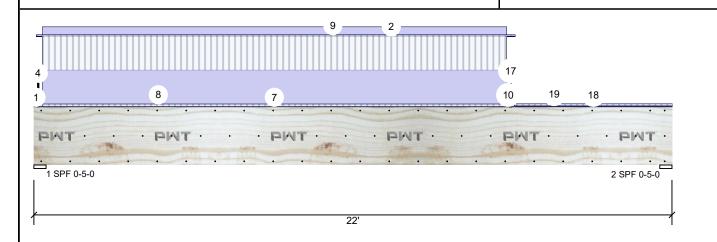
FB7 2.0E 2900Fb PWT LVL

1.750" X 24.000"

South

3-Ply - PASSED

Level: 2nd Floor





5 1/4"

Page 2 of 3

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
7	Tie-In	0-3-8 to 16-3-8	1-0-2	Тор	10 PSF	20 PSF	0 PSF	0 PSF	0 PSF	
8	Part. Uniform	0-3-8 to 16-3-8		Тор	390 PLF	390 PLF	0 PLF	0 PLF	0 PLF	R
9	Part. Uniform	0-3-8 to 16-3-8		Тор	96 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
10	Tie-In	16-3-8 to 16-6-8	1-0-2	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
11	Point	16-5-0		Near Face	95 lb	83 lb	0 lb	0 lb	0 lb	FB1
12	Point	16-5-0		Near Face	0 lb	-7 lb	0 lb	0 lb	0 lb	FB1
13	Point	16-5-4		Тор	55 lb	55 lb	0 lb	0 lb	0 lb	R
	Bearing Length	0-3-8								
14	Point	16-5-4		Тор	26 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
15	Point	16-5-4		Тор	2639 lb	2535 lb	0 lb	0 lb	0 lb	
	Bearing Length	0-3-8								
16	Point	16-5-4		Тор	9 lb	9 lb	0 lb	0 lb	0 lb	R
	Bearing Length	0-3-8								
17	Point	16-5-4		Тор	27 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
18	Tie-In	16-7-0 to 22-0-0	0-2-12	Тор	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
19	Tie-In	16-7-0 to 22-0-0	0-6-14	Тор	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
	Self Weight				36 PLF					

Notes

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FB7

2.0E 2900Fb PWT LVL

Client: Project: Address: 84 Lumber-Fayetteville #2307 CC2724-Lot 501 Creekside Oaks South CC2724-Lot 501 Creekside Oaks

Date: Input by: 1/31/2025 Will Evans

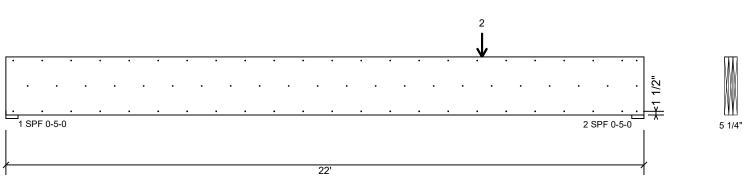
Job Name: 202501-68922

South

1.750" X 24.000"

Project #: 3-Ply - PASSED

68922 Level: 2nd Floor





Page 3 of 3

Multi-Ply Analysis

Fasten all plies using 3 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Nail from both sides. Maximum end distance not to exceed 6". Clinch Nails where possible.

	The second secon	
Capacity	0.0 %	
Load	0.0 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		
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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84 Lumber-Fayetteville #2307

CC2724-Lot 501 Creekside Oaks South

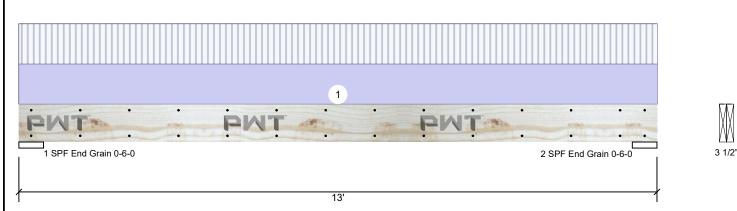
CC2724-Lot 501 Creekside Oaks South

Date: 1/31/2025 Input by: Will Evans Job Name: 202501-68922

Project #: 68922 Level: 2nd Floor

DB4 2.0E 2900Fb PWT LVL 1.750" X 9.250"

2-Ply - PASSED



Member Inf	formation						Dog	ction	sc DATT	ERNED	lh /I	Inlift)			
Type:	Girder		Application	on:	Floor		Brg		ection	Live	י) טו	Dead	Snow	Wind	Const
Plies:	2		Design M	lethod:	ASD			Vert	ical	780		840	0	0	0
Moisture Cond	lition: Dry		Building	Code:	IRC 2021		2	Vert	ical	780		840	0	0	0
Deflection LL:	360		Load Sha	aring:	No		-								
Deflection TL:	240		Deck:	ļ	Not Checked										
Importance:	Normal - II														
Temperature:	Temp <= 100°	'F													
General Load							Bea	rings	5						
Floor Live:	40 PSF						Bea	aring	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
Dead:	10 PSF						1 - End	•	6.000"	Vert	10%	840 / 780	1620	L	D+L
Analysis Re	sults						Gra	ain							
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case			6.000"	Vert	10%	840 / 780	1620	L	D+L
Moment	4581 ft-lb	6'6"	12416 ft-lb	37%	D+L	L	End Gra								

D+L

D+L

ī.

Design Notes

Shear

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.145", Long Term = 0.217".
- 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.

11'8 3/4" 6151 lb

6'6" 0.404 (L/360) 33%

6'6" 0.606 (L/240) 46%

- 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.

1303 lb

LL Defl inch 0.134 (L/1084)

TL Defl inch 0.279 (L/522)

- 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

L

ID 1 Part. Uniform 0-0-0 to 13-0-0 Top 120 PLF 120 PLF 0 PLF 0 PLF 0 PLF R 9 PLF Self Weight

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

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

Page 1 of 2

9 1/4"







84 Lumber-Fayetteville #2307

CC2724-Lot 501 Creekside Oaks South

CC2724-Lot 501 Creekside Oaks

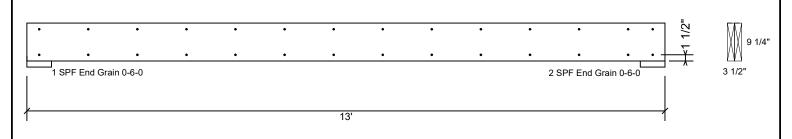
Date: 1/31/2025 Input by: Will Evans Job Name: 202501-68922

Project #: 68922

Level: 2nd Floor

DB4 2.0E 2900Fb PWT LVL

1.750" X 9.250" 2-Ply - PASSED



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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Page 2 of 2





84 Lumber-Fayetteville #2307 CC2724-Lot 501 Creekside Oaks South

CC2724-Lot 501 Creekside Oaks South

Date: 1/31/2025 Input by: Will Evans Job Name: 202501-68922

Project #: 68922

Level: 2nd Floor

HD1 2.0E 2900Fb PWT LVL

1.750" X 9.250" 2-P

2-Ply - PASSED

1 SPF End Grain 0-5-8

2 SPF End Grain 0-5-8



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

10 PSF

Application: Floor
Design Method: ASD
Building Code: IRC 2021
Load Sharing: No

Deck: Not Checked

Reactions PATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1938 (-205)	2507	0	0	0
2	Vertical	1546 (-616)	1632	0	0	0

Analysis Results

Dead:

_							
	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
	Moment	10419 ft-lb	3'3"	12416 ft-lb	84%	D+L	L
	Shear	4098 lb	1'2 3/4"	6151 lb	67%	D+L	L
	LL Defl inch	0.089 (L/904)	3'4 11/16"	0.224 (L/360)	40%	L	L
	TL Defl inch	0.187 (L/430)	3'4 1/2"	0.335 (L/240)	56%	D+L	L

- Design Notes

 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.098", Long Term = 0.147".
- 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

Bearings

I		-			React D/L lb	Total	Ld. Case	Ld. Comb.
4	1 - SPF End Grain	5.500"	Vert	31%	2507 / 1938	4445	L	D+L
ı	2 - SPF End Grain	5.500"	Vert	22%	1632 / 1546	3178	L	D+L

6 I	op loads must be supported equally by all plies.
7 T	op must be laterally braced at end bearings.
8 B	ottom 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	0-6-12 to 1-10-12		Тор	409 PLF	39 PLF	0 PLF	0 PLF	0 PLF	J7
2	Part. Uniform	1-1-8 to 7-6-0		Тор	96 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Part. Uniform	1-1-8 to 7-6-0		Тор	5 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
4	Tapered Start	1-1-8		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	3-8-11			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
5	Part. Uniform	1-1-8 to 3-1-8		Тор	130 PLF	130 PLF	0 PLF	0 PLF	0 PLF	R

Continued on page 2...

Notes

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PR-L233 PR-L280

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30097 888-613-5078

U.S.A

U.S. LUMBER

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







Continued from page 1

Client: Project:

Address:

84 Lumber-Fayetteville #2307

CC2724-Lot 501 Creekside Oaks South CC2724-Lot 501 Creekside Oaks

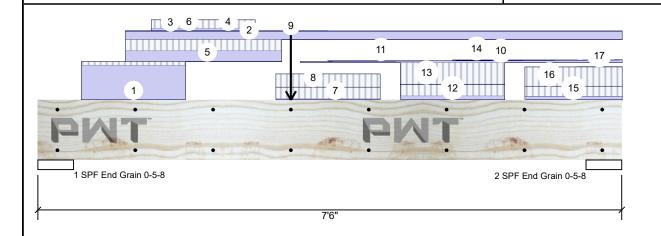
Date: 1/31/2025 Input by:

Will Evans Job Name: 202501-68922 Project #: 68922

HD1 2.0E 2900Fb PWT LVL

2-Ply - PASSED 1.750" X 9.250"

Level: 2nd Floor





Page 2 of 3

Continued fr	om 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	1-5-8 to 2-9-8		Тор	31 PLF	99 PLF	0 PLF	0 PLF	0 PLF	J8
7	Part. Uniform	3-0-11 to 4-4-11		Тор	-16 PLF	133 PLF	0 PLF	0 PLF	0 PLF	J2
8	Part. Uniform	3-0-11 to 4-4-11		Тор	0 PLF	-153 PLF	0 PLF	0 PLF	0 PLF	J2
9	Point	3-3-0		Тор	2639 lb	2535 lb	0 lb	0 lb	0 lb	
	Bearing Length	0-3-8								
10	Tapered Start	3-4-8		Тор	10 PLF	0 PLF	0 PLF	0 PLF	0 PLF	GE
	End	7-6-0			29 PLF	0 PLF	0 PLF	0 PLF	0 PLF	
11	Tapered Start	3-8-11		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	5-3-14			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
12	Part. Uniform	4-7-14 to 5-11-14		Тор	-49 PLF	133 PLF	0 PLF	0 PLF	0 PLF	J1
13	Part. Uniform	4-7-14 to 5-11-14		Тор	0 PLF	-255 PLF	0 PLF	0 PLF	0 PLF	J1
14	Tapered Start	5-3-14		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	6-11-2			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
15	Part. Uniform	6-3-2 to 7-6-0		Тор	-43 PLF	116 PLF	0 PLF	0 PLF	0 PLF	J1
16	Part. Uniform	6-3-2 to 7-6-0		Тор	0 PLF	-223 PLF	0 PLF	0 PLF	0 PLF	J1
17	Tapered Start	6-11-2		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	7-6-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				9 PLF					

Notes

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84 Lumber-Fayetteville #2307 CC2724-Lot 501 Creekside Oaks South CC2724-Lot 501 Creekside Oaks

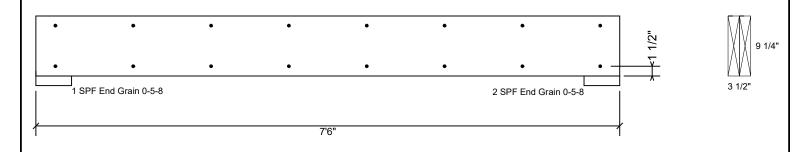
Date: Input by:

1/31/2025 Will Evans Job Name: 202501-68922 Page 3 of 3

Project #: 68922

HD1 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2nd Floor



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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HD2

2.0E 2900Fb PWT LVL

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

CC2724-Lot 501 Creekside Oaks South

CC2724-Lot 501 Creekside Oaks

1/31/2025 Will Evans Page 1 of 2

11 7/8"

5 1/4"

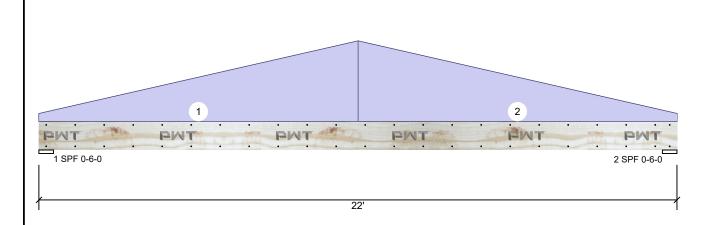
Job Name: 202501-68922 Project #: 68922

Date:

Input by:

South 1.750" X 11.875" 3-Ply - PASSED

Level: 2nd Floor



Member Infor	Member Information						Reactions PATTERNED lb (Uplift)							
Type:	Girder	Application:	Floor	Brg	Direction	Live		Dead	Snow	Wind	Const			
Plies:	3	Design Method:	ASD	1	Vertical	0		801	0	0	0			
Moisture Condition	n: Dry	Building Code:	IRC 2021	2	Vertical	0		801	0	0	0			
Deflection LL:	360	Load Sharing:	Yes											
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.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.			
Dead:	10 PSF			1-	SPF 6.000"	Vert	6%	801 / 0	801	Uniform	D			
				2 -	SPF 6.000"	Vert	6%	801 / 0	801	Uniform	D			

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4966 ft-lb	11'	27943 ft-lb	18%	D	Uniform
Shear	751 lb	20'6 1/8"	10661 lb	7%	D	Uniform
LL Defl inch	0.000 (L/999)	0	999.000 (L/0)	0%		
TL Defl inch	0.274 (L/924)	11' 1/16"	1.056 (L/240)	26%	D	Uniform

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.274", Long Term = 0.412".
- 3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Nail from both sides. 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

	nast be laterally braced at c									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Tapered Start	0-0-0		Тор	10 PLF	0 PLF	0 PLF	0 PLF	0 PLF	GE
	End	11-0-0			100 PLF	0 PLF	0 PLF	0 PLF	0 PLF	
2	Tapered Start	11-0-0		Тор	100 PLF	0 PLF	0 PLF	0 PLF	0 PLF	GE
	End	22-0-0			10 PLF	0 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				18 PLF					

Notes

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84 Lumber-Fayetteville #2307 CC2724-Lot 501 Creekside Oaks South

CC2724-Lot 501 Creekside Oaks

Date: 1/31/2025 Input by: Will Evans Job Name: 202501-68922 Project #:

68922

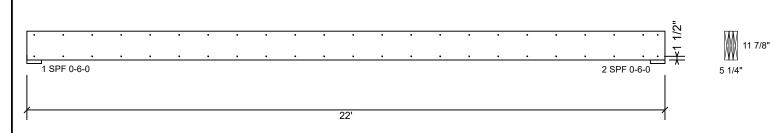
2.0E 2900Fb PWT LVL HD2

1.750" X 11.875"

South

3-Ply - PASSED

Level: 2nd Floor



Multi-Ply Analysis

Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Nail from both sides. 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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