

Address:

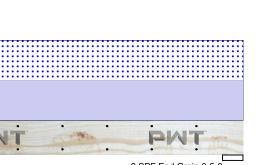
CL2862-CP-3C-GL CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans Job Name: 202510-82734

Project #: 82734

Level: 2nd Flr

DB₁ 2.0E 2900Fb PWT LVL 1.750" X 9.250"

2-Ply - PASSED



9 1/4"

3 1/2'

Page 1 of 2

2 SPF End Grain 0-5-8

14'3 1/2'

1

Member Information

1 SPF 0-3-8

Type: Girder Plies: 2 Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II Temperature: Temp <= 100°F

General Load

10 PSF

Floor Live: 40 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	0	946	880	0	0
2	Vertical	0	1007	940	0	0

Bearings

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 3.500" 946 / 880 D+S Vert 1826 L 2 - SPF 5.500" Vert 13% 1007 / 940 1947 L D+S End Grain

Analysis Results

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	6286 ft-lb	7' 3/4"	14278 ft-lb	44%	D+S	L
Shear	1616 lb	1' 3/4"	7074 lb	23%	D+S	L
LL Defl inch	0.232 (L/707)	7' 13/16"	0.456 (L/360)	51%	S	L
TL Defl inch	0.480 (L/342)	7' 13/16"	0.683 (L/240)	70%	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.248", Long Term = 0.372".
- 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	0-3-8 to 14-3-8		Тор	130 PLF	0 PLF	130 PLF	0 PLF	0 PLF	R
	Self Weight				9 PLF					

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







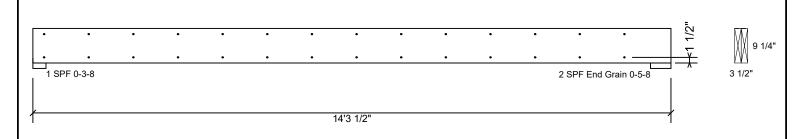
Address:

CL2862-CP-3C-GL CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans Job Name: 202510-82734

Project #: 82734

DB₁ 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

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





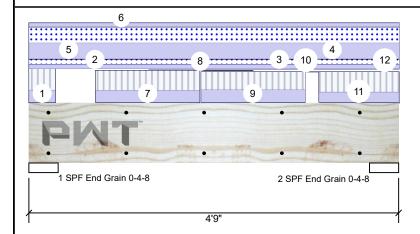
CL2862-CP-3C-GL CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans Job Name: 202510-82734 Project #: 82734

#: 82734 Level: 2nd Flr

HD1 2.0E 2900Fb PWT LVL 1.750" X 9.250"

Address:

2-Ply - PASSED Le



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

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	814	1906	1116	0	0
2	Vertical	938	1971	1116	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3168 ft-lb	2'4 7/16"	14278 ft-lb	22%	D+0.75(L+S)	L
Shear	1886 lb	1'1 3/4"	7074 lb	27%	D+0.75(L+S)	L
LL Defl inch	0.014 (L/3550)	2'4 7/16"	0.138 (L/360)	10%	0.75(L+S)	L
TI Defl inch	0.032 (L/1537)	2'4 7/16"	0.206 (L/240)	16%	D+0.75(L+S)	L

Bearings

Bearing Le	ength Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF 4.5 End	500" Vert	28%	1906 / 1448	3354	L	D+0.75(L+S)

Grain

Grain

2 - SPF 4.500" Vert 30% 1971 / 1541 3512 L D+0.75(L+S) End

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.018", Long Term = 0.027".
- 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

o Bollom mus	t 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 0-4-2		Тор	287 PLF	480 PLF	0 PLF	0 PLF	0 PLF	J9
2	Tapered Start	0-0-0		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	1-6-5			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-0-0 to 4-9-0		Тор	110 PLF	0 PLF	110 PLF	0 PLF	0 PLF	R
4	Part. Uniform	0-0-0 to 4-9-0		Тор	5 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
5	Part. Uniform	0-0-0 to 4-9-0		Тор	360 PLF	0 PLF	360 PLF	0 PLF	0 PLF	R

Continued on page 2...

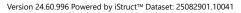
Notes

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Project: CL2862-CP-3C-GL
Address: CL2862-CP-3C-GL

Date: 10/1/2025 Input by: Will Evans

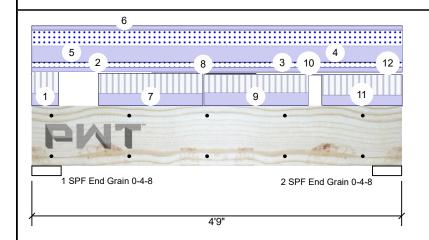
Job Name: 202510-82734 Project #: 82734

HD1 2.0E 2900Fb PWT LVL 1

1.750" X 9.250"

2-Ply - PASSED

Level: 2nd Flr





Page 2 of 3

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	0-0-0 to 4-9-0		Тор	96 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
7	Part. Uniform	0-10-5 to 2-2-5		Тор	282 PLF	445 PLF	0 PLF	0 PLF	0 PLF	J9
8	Tapered Start	1-6-5		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	2-10-8			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
9	Part. Uniform	2-2-8 to 3-6-8		Тор	295 PLF	399 PLF	0 PLF	0 PLF	0 PLF	J9
10	Tapered Start	2-10-8		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	4-4-11			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
11	Part. Uniform	3-8-11 to 4-9-0		Тор	247 PLF	447 PLF	0 PLF	0 PLF	0 PLF	J9
12	Tapered Start	4-4-11		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	4-9-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				9 PLF					

Notes

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Manufacturer Info

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CL2862-CP-3C-GL Address: CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans Job Name: 202510-82734

Project #: 82734

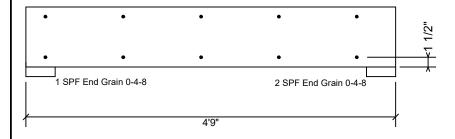
Level: 2nd Flr

HD1 2.0E 2900Fb PWT LVL 1.750" X 9.250"

2-Ply - PASSED



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

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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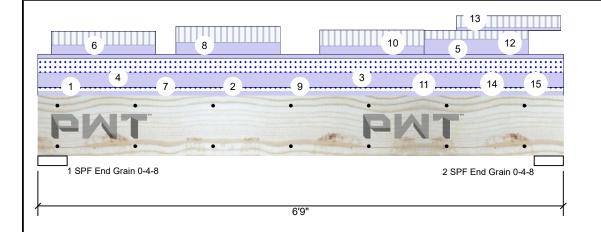
CL2862-CP-3C-GL CL2862-CP-3C-GL

Date: 10/1/2025 Input by: Will Evans Job Name: 202510-82734 Project #: 82734

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

Address:

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 40 PSF

10 PSF

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

Kea	ctions PAI I	EKNED ID	(Uplitt)			
Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1015	2730	1586	0	0
2	Vertical	1194	2894	1586	0	0
l						

Analysis Results

General Load Floor Live:

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb. Case
Moment	6586 ft-lb	3'4 7/8"	14278 ft-lb	46%	D+0.75(L+S) L
Shear	3191 lb	5'7 1/4"	7074 lb	45%	D+0.75(L+S) L
LL Defl inch	0.050 (L/1458)	3'4 11/16"	0.204 (L/360)	25%	0.75(L+S) L
TL Defl inch	0.121 (L/609)	3'4 5/8"	0.306 (L/240)	39%	D+0.75(L+S) L

Bearings

Grain

Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 4.500" 2730 / 1951 D+0.75(L+S) Vert 4681 L End Grain 2 - SPF 4.500" 2894 / 2085 4979 L D+0.75(L+S) Vert End

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.070", Long Term = 0.106".
- 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.

0 DOLLOTT	nust be laterally braced a									
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	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	0-10-2			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 6-9-0		Тор	110 PLF	0 PLF	110 PLF	0 PLF	0 PLF	R
3	Part. Uniform	0-0-0 to 6-9-0		Тор	5 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
4	Part. Uniform	0-0-0 to 6-9-0		Тор	360 PLF	0 PLF	360 PLF	0 PLF	0 PLF	R
5	Part. Uniform	0-0-0 to 6-9-0		Тор	96 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
Continued on	page 2									

Notes

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Continued from page 1

Client: 84 Lumber-Fayetteville #2307
Project: CL2862-CP-3C-GL

Project: CL2862-CP-3C-GL
Address: CL2862-CP-3C-GL

Date: 10/1/2025 Input by: Will Evans

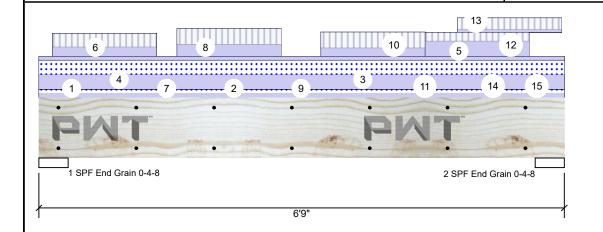
Job Name: 202510-82734 Project #: 82734

HD2-A 2.0E 2900Fb PWT LVL

1.750" X 9.250"

2-Ply - PASSED

Level: 2nd Flr





Page 2 of 3

Continued t	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	0-2-2 to 1-6-2		Тор	252 PLF	340 PLF	0 PLF	0 PLF	0 PLF	J3
7	Tapered Start	0-10-2		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	2-5-5			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
8	Part. Uniform	1-9-5 to 3-1-5		Тор	320 PLF	400 PLF	0 PLF	0 PLF	0 PLF	J3
9	Tapered Start	2-5-5		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	4-3-8			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
10	Part. Uniform	3-7-8 to 4-11-8		Тор	233 PLF	395 PLF	0 PLF	0 PLF	0 PLF	J3
11	Tapered Start	4-3-8		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	5-7-8			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
12	Part. Uniform	4-11-8 to 6-3-8		Тор	400 PLF	217 PLF	0 PLF	0 PLF	0 PLF	J3
13	Part. Uniform	5-4-8 to 6-8-8		Тор	75 PLF	300 PLF	0 PLF	0 PLF	0 PLF	J3
14	Tapered Start	5-7-8		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	6-0-8			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
15	Tapered Start	6-0-8		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	6-9-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				9 PLF					

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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Address:

CL2862-CP-3C-GL CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans Job Name: 202510-827

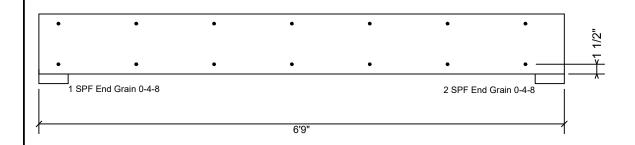
Job Name: 202510-82734
Project #: 82734

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.	
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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Address:

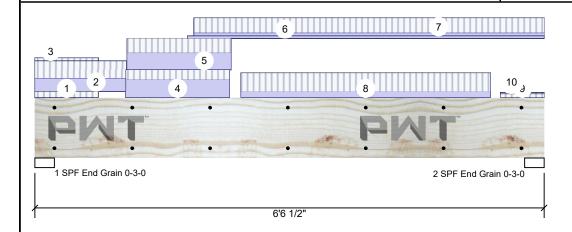
CL2862-CP-3C-GL CL2862-CP-3C-GL Date: 10/1/2025
Input by: Will Evans
Job Name: 202510-82734

Project #: 82734

HD2-B 2.0E 2900Fb PWT LVL

1.750" X 9.250" 2-Ply - PASSED

Level: 2nd Flr



Floor

ASD

No

IRC 2021

Not Checked

Application:

Design Method:

Building Code:

Load Sharing:

Deck:



D+L

Page 1 of 3

Member Information

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

Normal - II Temp <= 100°F

Temperature: General Load

Floor Live: 40 PSF Dead: 10 PSF Reactions PATTERNED Ib (Uplift)

Vert

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1985 (-53)	1472	0	0	0
2	Vertical	2109 (-18)	1048	0	0	0

Bearings

1048 / 2109

3157 L

End Grain

2 - SPF 3.000"

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5246 ft-lb	3'1 9/16"	12416 ft-lb	42%	D+L	L
Shear	2659 lb	1' 1/4"	6151 lb	43%	D+L	L
LL Defl inch	0.060 (L/1241)	3'3 5/8"	0.206 (L/360)	29%	L	L
TL Defl inch	0.096 (L/767)	3'2 11/16"	0.308 (L/240)	31%	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.037", Long Term = 0.055".
- 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

o bottom mus	of be laterally braced to	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	Part. Uniform	0-0-0 to 0-9-12		Тор	-13 PLF	129 PLF	0 PLF	0 PLF	0 PLF	J3
2	Part. Uniform	0-0-0 to 1-2-0		Тор	289 PLF	393 PLF	0 PLF	0 PLF	0 PLF	J3
3	Part. Uniform	0-0-0 to 0-9-12		Тор	0 PLF	-68 PLF	0 PLF	0 PLF	0 PLF	J3
4	Part. Uniform	1-2-0 to 2-6-0		Тор	402 PLF	216 PLF	0 PLF	0 PLF	0 PLF	J3
5	Part. Uniform	1-2-3 to 2-6-3		Тор	391 PLF	313 PLF	0 PLF	0 PLF	0 PLF	J9
6	Part. Uniform	1-11-8 to 6-6-8		Тор	52 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
	_									

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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Address:

CL2862-CP-3C-GL CL2862-CP-3C-GL Date: 10/1/2025
Input by: Will Evans
Job Name: 202510-82

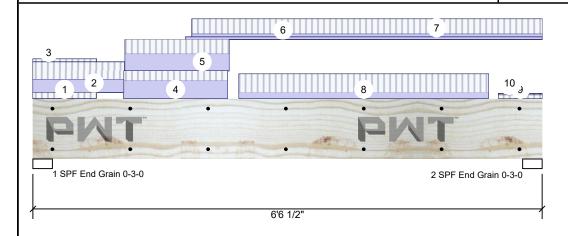
Job Name: 202510-82734 Project #: 82734

HD2-B 2.0E 2900Fb PWT LVL

1.750" X 9.250"

2-Ply - PASSED

Level: 2nd Flr





Page 2 of 3

..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
7	Part. Uniform	2-0-8 to 6-6-8		Тор	82 PLF	330 PLF	0 PLF	0 PLF	0 PLF	J3
8	Part. Uniform	2-7-13 to 5-10-3		Тор	145 PLF	405 PLF	0 PLF	0 PLF	0 PLF	J9
9	Part. Uniform	5-11-13 to 6-6-8		Тор	8 PLF	80 PLF	0 PLF	0 PLF	0 PLF	J9
10	Part. Uniform	5-11-13 to 6-6-8		Тор	0 PLF	-29 PLF	0 PLF	0 PLF	0 PLF	J9
	Self Weight				9 PLF					

Notes

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CL2862-CP-3C-GL Address: CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans

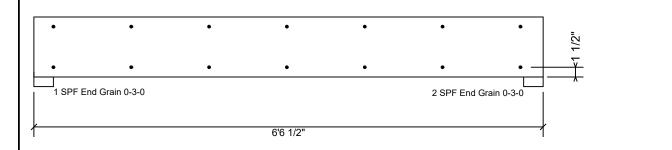
Job Name: 202510-82734 Project #: 82734

2.0E 2900Fb PWT LVL HD2-B

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

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





Address:

CL2862-CP-3C-GL CL2862-CP-3C-GL Date: 10/1/2025
Input by: Will Evans
Job Name: 202510-82734

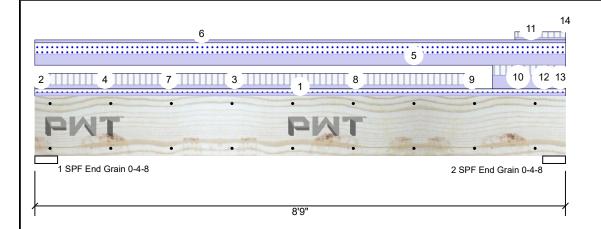
Project #: 82734

Level: 2nd Flr

HD3 2.0E 2900Fb PWT LVL

1.750" X 11.875"

2-Ply - PASSED



Floor

ASD

No

IRC 2021

Not Checked

Application:

Design Method:

Building Code:

Load Sharing:

Deck:



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

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	1604	3156	2056	0	0
2	Vertical	1607	3547	2056	0	0

Bearings

 Bearing Length
 Dir.
 Cap. React D/L lb
 Total
 Ld. Case
 Ld. Comb.

 1 - SPF
 4.500"
 Vert
 50%
 3156 / 2745
 5901
 L
 D+0.75(L+S)

 End
 Grain

2 - SPF $\,4.500"$ Vert $\,53\%\,\,\,3547\,/\,\,2747\,\,\,\,6295$ L D+0.75(L+S) End Grain

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	11130 ft-lb	4'4 1/2"	22888 ft-lb	49%	D+0.75(L+S)	L.
Shear	4061 lb	1'4 3/8"	9081 lb	45%	D+0.75(L+S)	L
LL Defl inch	0.077 (L/1268)	4'4 3/8"	0.271 (L/360)	28%	0.75(L+S)	L
TL Defl inch	0.166 (L/586)	4'4 9/16"	0.406 (L/240)	41%	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 = 0.089", Long Term = 0.134".
- 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 8-9-0		Тор	110 PLF	0 PLF	110 PLF	0 PLF	0 PLF	R	
2	Tapered Start	0-0-0		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF		
	End	0-2-8			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF		
3	Part. Uniform	0-0-0 to 8-9-0		Тор	5 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight	
4	Part. Uniform	0-0-0 to 7-2-8		Тор	136 PLF	369 PLF	0 PLF	0 PLF	0 PLF	J9	
5	Part. Uniform	0-0-0 to 8-9-0		Тор	360 PLF	0 PLF	360 PLF	0 PLF	0 PLF	R	

Continued on page 2...

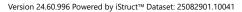
Notes

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Continued from page 1

Client: 84 Lumber-Fayetteville #2307

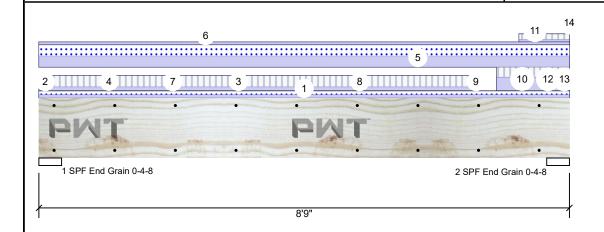
CL2862-CP-3C-GL Address: CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans

Job Name: 202510-82734 Project #: 82734

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

Project:

Level: 2nd Flr





Page 2 of 3

Continued fi	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	Part. Uniform	0-0-0 to 8-9-0		Тор	96 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
7	Tapered Start	0-2-8		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	4-2-8			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
8	Tapered Start	4-2-8		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	6-2-8			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
9	Tapered Start	6-2-8		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	8-2-8			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
10	Part. Uniform	7-6-8 to 8-9-0		Тор	453 PLF	331 PLF	0 PLF	0 PLF	0 PLF	J10
11	Part. Uniform	7-11-0 to 8-9-0		Тор	89 PLF	167 PLF	0 PLF	0 PLF	0 PLF	J10
12	Tapered Start	8-2-8		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	8-7-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
13	Tapered Start	8-7-0		Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
	End	8-9-0			0 PLF	1 PLF	0 PLF	0 PLF	0 PLF	
14	Part. Uniform	8-8-14 to 8-9-0		Тор	202 PLF	338 PLF	0 PLF	0 PLF	0 PLF	J9
	Self Weight				12 PLF					

Notes

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





Client: 84 L Project: CL2

Address:

84 Lumber-Fayetteville #2307 CL2862-CP-3C-GL

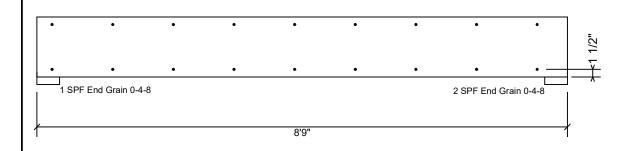
CL2862-CP-3C-GL

Date: 10/1/2025 Input by: Will Evans

Job Name: 202510-82734
Project #: 82734

HD3 2.0E 2900Fb PWT LVL 1.750" X 11.875" 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

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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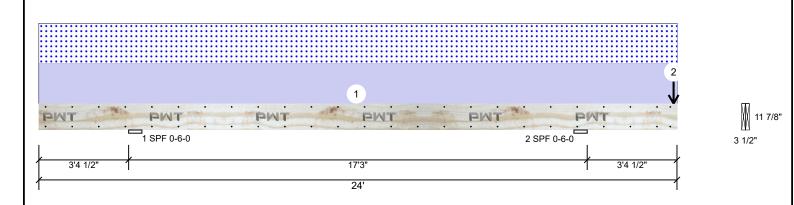


Client: 84 Lumber-Fayetteville #2307

Project: CL2862-CP-3C-GL Address: CL2862-CP-3C-GL Date: 10/1/2025 Input by:

Will Evans Job Name: 202510-82734 Project #: 82734

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



Member Infor	mation			Read	tions PAT1	ERNED	lb (Uplift)			
Type:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind	Const
Plies:	2	Design Method:	ASD	1	Vertical	0	1220	1095	0	0
Moisture Conditio	n: Dry	Building Code:	IRC 2021	2	Vertical	0	1239	1095	0	0
Deflection LL:	360	Load Sharing:	No							
Deflection TL:	240	Deck:	Not Checked							
Importance:	Normal - II									
Temperature:	Temp <= 100°F									
General Load				Bear	ings					
Floor Live:	40 PSF			Bea	ring Length	Dir.	Cap. React D/L I	b Total	Ld. Case	Ld. Comb.
Dead:	10 PSF			1 - 3	SPF 6.000"	Vert	26% 1220 / 109	5 2315	LL_	D+S
				2 - :	SPF 6.000"	Vert	26% 1239 / 109	5 2335	_LL	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-1138 ft-lb	20'7 1/2"	22888 ft-lb	5%	D+S	_LL
Pos Moment	5870 ft-lb	11'11 13/16"	22888 ft-lb	26%	D+S	_L_
Shear	1387 lb	19'1 5/8"	9081 lb	15%	D+S	_LL
LL Defl inch	0.156 (L/1288)	12' 1/16"	0.558 (L/360)	28%	S	_L_
TL Defl inch	0.313 (L/642)	11'11 15/16"	0.838 (L/240)	37%	D+S	_L_
LL Cant	-0.090 (2L/896)	Lt Cant	0.338 (2L/240)	27%	S	_L_
TL Cant	-0.175 (2L/462)	Lt Cant	0.450 (2L/180)	39%	D+S	_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 = 0.157", Long Term = 0.236".
- 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.

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 1 of 3







CL2862-CP-3C-GL CL2862-CP-3C-GL

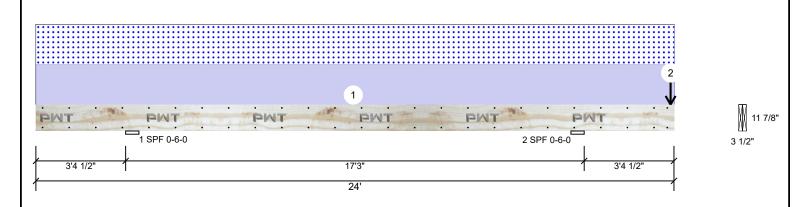
10/1/2025 Date: Input by: Will Evans

Job Name: 202510-82734 Project #: 82734

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

Address:

Level: 2nd Flr



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 24-0-0		Тор	90 PLF	0 PLF	90 PLF	0 PLF	0 PLF	R
2	Point	23-10-8		Near Face	14 lb	0 lb	0 lb	0 lb	0 lb	DB2
	Self Weight				12 PLF					

Notes

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Page 2 of 3





Client: 84
Project: CL2

Address:

84 Lumber-Fayetteville #2307 CL2862-CP-3C-GL

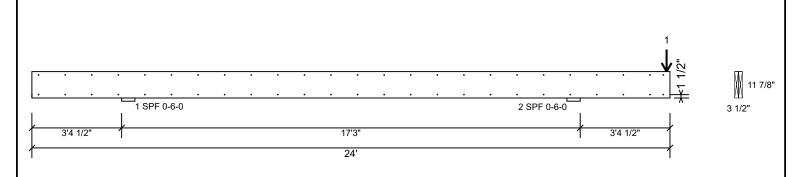
CL2862-CP-3C-GL

Date: 10/1/2025 Input by: Will Evans

Job Name: 202510-82734 Project #: 82734

HD4 2.0E 2900Fb PWT LVL 1.750" X 11.875" 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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Page 3 of 3



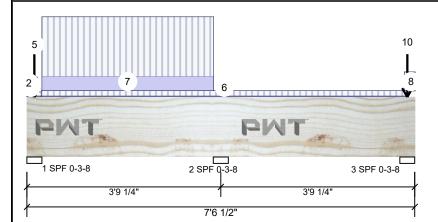


CL2862-CP-3C-GL Address: CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans Job Name: 202510-82734

Project #: 82734

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

Level: 2nd Flr





Page 1 of 2

Member Information Type: Girder Plies: Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II Temp <= 100°F Temperature:

40 PSF 10 PSF

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

Deck: Not Checked

_		TERNED Ib	(Uplift)
Brg	Direction	Live	Dead

Snow Wind Const 229 0 0 0 Vertical 116 0 2 Vertical 295 103 0 0 0 0 0 3 Vertical 24 (-13) 41

Bearings

Bearing	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	13%	112 / 219	330	L_	D+L
2 - SPF	3.500"	Vert	16%	111 / 318	429	LL	D+L
3 - SPF	3 500"	Vert	2%	37 / 23	60	1	D+L

Analysis Results

General Load

Floor Live:

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-159 ft-lb	3'9 1/4"	13396 ft-lb	1%	D+L	LL
Pos Moment	218 ft-lb	1'9 3/16"	13396 ft-lb	2%	D+L	L_
Shear	130 lb	2'5 1/2"	4655 lb	3%	D+L	LL
LL Defl inch	0.002 (L/27459)	1'11 11/16"	0.118 (L/360)	1%	L	L_
TL Defl inch	0.002 (L/21218)	1'11 11/16"	0.177 (L/240)	1%	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 = 0.000", Long Term = 0.001".
- 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.										
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 0-3-6	0-3-1	Тор	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 0-2-6	0-10-3	Тор	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
3	Point	0-1-12		Тор	3 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
4	Point	0-1-12		Тор	20 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
5	Point	0-1-12		Тор	23 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
Continued on pag	Continued on page 2									

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.

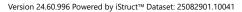
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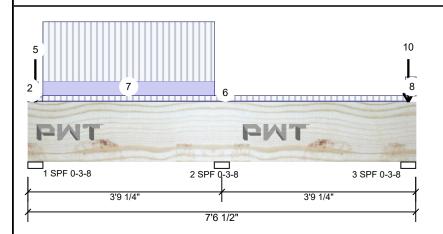
Project: CL2862-CP-3C-GL
Address: CL2862-CP-3C-GL

Date: 10/1/2025
Input by: Will Evans
Job Name: 202510-82

Job Name: 202510-82734 Project #: 82734

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

Level: 2nd Flr





Page 2 of 2

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
	Bearing Length	0-3-8								
6	Tie-In	0-3-6 to 7-4-12	0-3-1	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
7	Part. Uniform	0-3-8 to 3-7-8		Тор	33 PLF	132 PLF	0 PLF	0 PLF	0 PLF	S
8	Tie-In	7-4-2 to 7-6-8	0-10-3	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
9	Point	7-4-12		Тор	8 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
10	Point	7-4-12		Тор	20 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
	Self Weight				7 PLF					

Notes

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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: 8 Project: 0

Address:

84 Lumber-Fayetteville #2307 CL2862-CP-3C-GL

CL2862-CP-3C-GL

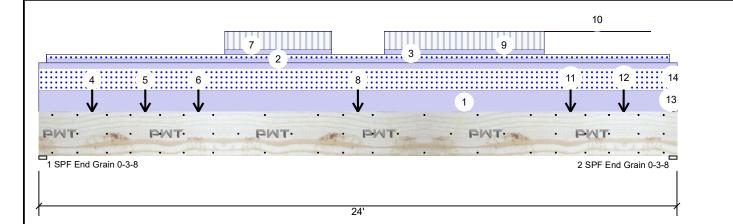
Date: 10/1/2025 Input by: Will Evans

> Job Name: 202510-82734 Project #: 82734

FB2 2.0E 2900Fb PWT LVL 1

1.750" X 20.000"

4-Ply - PASSED Level: 2nd Flr



Floor

ASD

IRC 2021 Yes

Not Checked



Page 1 of 6

ı			
ĺ	Type:	Girder	Application:
l	Plies:	4	Design Method:
	Moisture Condition:	Dry	Building Code:
	Deflection LL:	360	Load Sharing:
	Deflection TL:	240	Deck:
l	Importance:	Normal - II	
	Temperature:	Temp <= 100°F	
	General Load		
١	Floor Live:	40 PSF	

10 PSF

Reactions PATTERNED Ib (Uplift)
Brg Direction Live Dead

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	3246 (0)	7880	5140	0	0
2	Vertical	2983 (-4)	8206	5811	0	0

Analysis Results

Dead:

Member Information

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	85019 ft-lb	12'	121783 ft-lb	70%	D+0.75(L+S)	L
Shear	12469 lb	1'11 1/2"	30590 lb	41%	D+0.75(L+S)	L
LL Defl inch	0.432 (L/654)	12' 1/16"	0.785 (L/360)	55%	0.75(L+S)	L
TL Defl inch	0.972 (L/291)	12' 1/16"	1.178 (L/240)	83%	D+0.75(L+S)	L

Bearings

 Bearing Length
 Dir.
 Cap. React D/L lb
 Total
 Ld. Case
 Ld. Comb.

 1 - SPF
 3.500"
 Vert
 77%
 7880 / 6290
 14169
 L
 D+0.75(L+S)

 End

Grain

Grain

2 - SPF 3.500" Vert 81% 8206 / 6595 14802 L D+0.75(L+S) End

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.540", Long Term = 0.810".
- 3 Fasten all plies using 3 rows of SDW22634 at 24" o.c. Maximum end distance not to exceed 12".
- 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 Simpson fasteners applied from a single side of the member use tip values where published.
- 7 Girders are designed to be supported on the bottom edge only.
- 8 Top loads must be supported equally by all plies.
- 9 Top must be laterally braced at a maximum of 4'1 1/8" o.c.
- 10 Bottom must be laterally braced at end bearings.

ı	TO BORROTT THEORY	o iatorany bracca at o	na searrige.									
	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 23-8-8		Тор	360 PLF	0 PLF	360 PLF	0 PLF	0 PLF	R	
	2	Part. Uniform	0-0-0 to 24-0-0		Тор	94 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight	
	3	Part. Uniform	0-3-8 to 23-8-8		Тор	70 PLF	0 PLF	70 PLF	0 PLF	0 PLF	R	
	4	Point	2-0-0		Far Face	166 lb	592 lb	0 lb	0 lb	0 lb	J2	

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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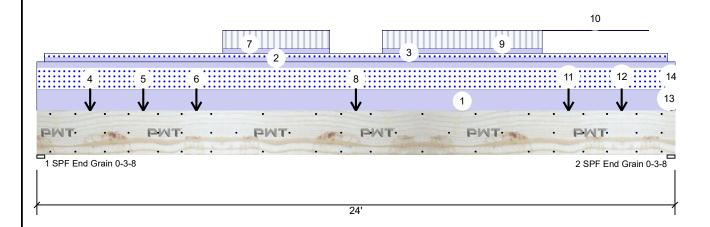
CL2862-CP-3C-GL CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans

Job Name: 202510-82734 Project #: 82734

FB2 2.0E 2900Fb PWT LVL 1.750" X 20.000" 4-Ply - PASSED

Address:

Level: 2nd Flr





Page 2 of 6

Co	ntinued from pag	je 1									
ID	L	₋oad Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
5	F	Point	4-0-0		Far Face	167 lb	599 lb	0 lb	0 lb	0 lb	J2
6	F	Point	6-0-0		Far Face	181 lb	599 lb	0 lb	0 lb	0 lb	J2
7	F	Part. Uniform	7-0-0 to 11-0-0		Far Face	84 PLF	300 PLF	0 PLF	0 PLF	0 PLF	
8	F	Point	12-0-0		Far Face	600 lb	599 lb	0 lb	0 lb	0 lb	J2
9	F	Part. Uniform	13-0-0 to 19-0-0		Far Face	84 PLF	300 PLF	0 PLF	0 PLF	0 PLF	
10) F	Part. Uniform	19-0-0 to 23-0-0		Far Face	0 PLF	-1 PLF	0 PLF	0 PLF	0 PLF	
11	F	Point	20-0-0		Far Face	102 lb	417 lb	0 lb	0 lb	0 lb	J3
12	<u> </u>	Point	22-0-0		Far Face	99 lb	406 lb	0 lb	0 lb	0 lb	J3
13	3 T	Γie-In	23-8-8 to 24-0-0	1-6-0	Тор	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
14	ļ F	Point	23-10-4		Тор	535 lb	0 lb	776 lb	0 lb	0 lb	
	Е	Bearing Length	0-3-8								
	S	Self Weight				40 PLF					

Notes

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Project: CL2862-CP-3C-GL Address: CL2862-CP-3C-GL Date: 10/1/2025
Input by: Will Evans
Job Name: 202510-82

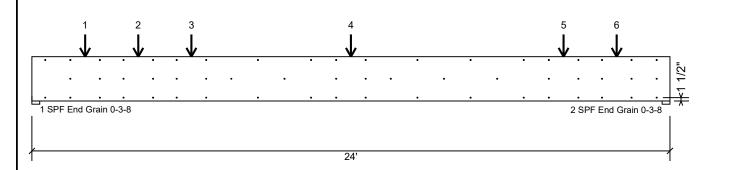
Job Name: 202510-82734 Project #: 82734

FB2 2.0E 2900Fb PWT LVL

1.750" X 20.000"

4-Ply - PASSED

Level: 2nd Flr





Page 3 of 6

Multi-Ply Analysis

Fasten all plies using 3 rows of SDW22634 at 24" o.c.. except for regions covered by concentrated load fastening. Maximum end distance not to exceed 12".

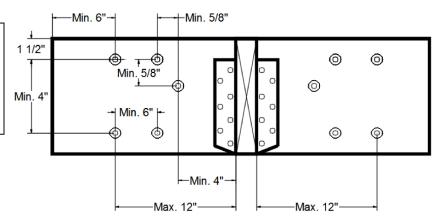
Capacity	64.0 %
Load	288.0 PLF
Yield Limit per Foot	450.0 PLF
Yield Limit per Fastener	300.0 lb.
CM	1
Yield Mode	Lookup
Edge Distance	1 1/2"
Min. End Distance	6"
Load Combination	D+L
Duration Factor	1.00

Concentrated Load

Fasten at concentrated side load at 2-0-0 with a minimum of (6) – SDW22634 in the pattern shown. All fasteners shall be installed with the head on the

side of the applied load. Capacity 23.7 % 568.5lb. I oad Total Yield Limit 2400.0 lb. 1.0000 Cg См Yield Limit per Fastener 400.0 lb. Yield Mode Lookup Load Combination D+I 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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CL2862-CP-3C-GL CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans

Job Name: 202510-82734
Project #: 82734

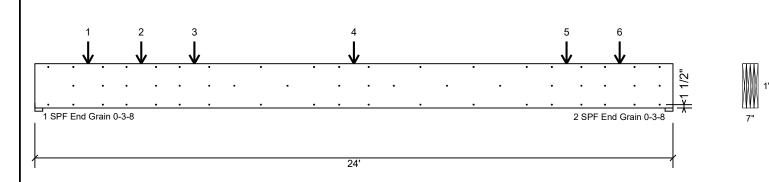
FB2 2.0E 2900Fb PWT LVL

1.750" X 20.000"

Address:

4-Ply - PASSED

Level: 2nd Flr



Multi-Ply Analysis

Concentrated Load

Fasten at concentrated side load at 4-0-0 with a minimum of (6) – SDW22634 in the pattern shown. All fasteners shall be installed with the head on the side of the applied load.

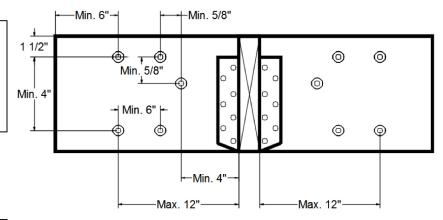
side of the applied load	•	
Capacity	23.9 %	
Load	574.5lb.	
Total Yield Limit	2400.0 lb.	
Cg	1.0000	
CM	1	
Yield Limit per Fastener	400.0 lb.	
Yield Mode	Lookup	
Load Combination	D+L	
Duration Factor	1.00	

Concentrated Load

Fasten at concentrated side load at 6-0-0 with a minimum of (6) – SDW22634 in the pattern shown. All fasteners shall be installed with the head on the side of the applied load.

Capacity	24.4 %
Load	585.0lb.
Total Yield Limit	2400.0 lb.
Cg	1.0000
См	1
Yield Limit per Fastener	400.0 lb.
Yield Mode	Lookup
Load Combination	D+L
Duration Factor	1.00

Min/Max fastener distances for Concentrated Side Loads



Notes

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Page 4 of 6







Address:

CL2862-CP-3C-GL CL2862-CP-3C-GL Date: 10/1/2025 Input by: Will Evans

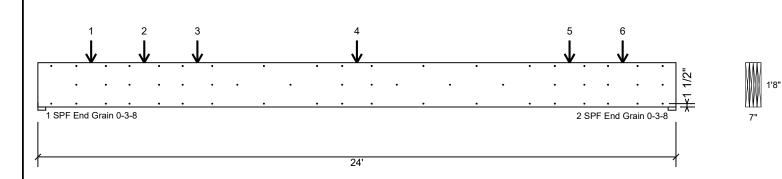
Job Name: 202510-82734
Project #: 82734

FB2 2.0E 2900Fb PWT LVL

1.750" X 20.000"

4-Ply - PASSED

Level: 2nd Flr



Multi-Ply Analysis

Concentrated Load

Fasten at concentrated side load at 12-0-0 with a minimum of (6) – SDW22634 in the pattern shown. All fasteners shall be installed with the head on the side of the applied load.

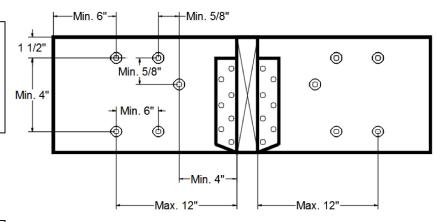
side of the applicational					
Capacity	37.5 %				
Load	899.3lb.				
Total Yield Limit	2400.0 lb.				
Cg	1.0000				
CM	1				
Yield Limit per Fastener	400.0 lb.				
Yield Mode	Lookup				
Load Combination	D+L				
Duration Factor	1.00				

Concentrated Load

Fasten at concentrated side load at 20-0-0 with a minimum of (6) – SDW22634 in the pattern shown. All fasteners shall be installed with the head on the side of the applied load.

Capacity	16.2 %	
Load	389.3lb.	
Total Yield Limit	2400.0 lb.	
Cg	1.0000	
CM	1	
Yield Limit per Fastener	400.0 lb.	
Yield Mode	Lookup	
Load Combination	D+L	
Duration Factor	1.00	

Min/Max fastener distances for Concentrated Side Loads



Notes

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Page 5 of 6





Client: Project:

Address:

84 Lumber-Fayetteville #2307 CL2862-CP-3C-GL

CL2862-CP-3C-GL

Date: 10/1/2025 Input by: Will Evans

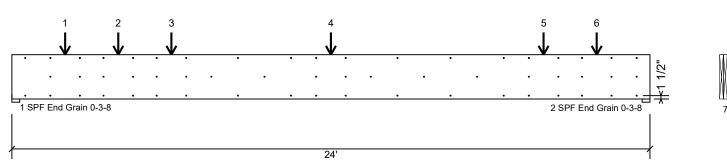
Job Name: 202510-82734 Project #: 82734

2.0E 2900Fb PWT LVL FB₂

1.750" X 20.000"

4-Ply - PASSED

Level: 2nd Flr





Page 6 of 6

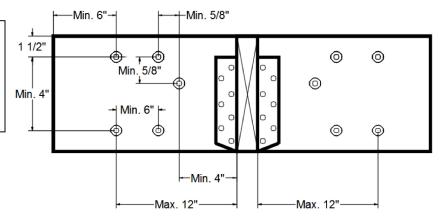
Multi-Ply Analysis

Concentrated Load

Fasten at concentrated side load at 22-0-0 with a minimum of (6) – SDW22634 in the pattern shown. All fasteners shall be installed with the head on the side of the applied load.

side of the applied load	4.	
Capacity	15.8 %	
Load	378.8lb.	
Total Yield Limit	2400.0 lb.	
Cg	1.0000	
Cg Cm	1	
Yield Limit per Fastener	400.0 lb.	
Yield Mode	Lookup	
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

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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: CL2862-CP-3C-GL Date: 10/1/2025

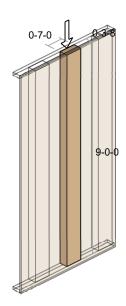
Input by:

Job Name: 202510-82734 Project #: 82734

C1-A **Boozer 1.9E Column**

3.500" X 7.000" - PASSED

Level: 2nd Flr



Design Method: ASD Building Code: IRC 2021 Importance: Normal - II Application: Stud In Wall Load Sharing: Yes Spacing: 1-4-0

Unbraced Length: Continuous Orientation: Plank **Building Type:** Enclosed Zone 4 Mean Roof Height: 30-0-0 Wind Speed mph: 115 Exposure

Topographical Escarpment

Feature: Feature Height: Feature Length: Horizontal Offset: 0

Category:

Direction: Downwind

Topographical Factor Kzt:

Risk Occupancy Category II LL Deflection Limit: L/360

Design OK. Design Notes

1. Axial load eccentricity of 1/6 dimension applied only to the direction perpendicular to the wall.

Page 1 of 1

- 2. Designed in accordance with NDS 2018, ASCE7 and
- 3. Top and bottom ends of the member must be supported to prevent lateral movement and rotation.
- 4. Member must be continuously laterally braced in the wall plane direction.
- 5. Holes and notches are not allowed in member.
- 6. Effective length factor 0.85 for slenderness and strength calculations.
- 7. Design wind load based on leeward pressure 34 PSF. Windward pressure is 32 PSF.

Analysis

Design Properties

	Actual	Allowed	Capacity	Load Combination	E:	1900000	Fc:	2300
Slenderness	30.9	50.0	62%		Ey:	1900000	Fv:	0
Axial (lb.)	14169	27289	52%	D+0.75(L+S)	Fb:	2100	Fvy:	0
Axial + Bending	0.74	1	74%	D+0.75(L+S)	Fby:	2300		
Bearing Steel (lb.)	14229	49000	29%	D+0.75(0.6W+L+S)				
LL Deflection	0.178 (in.) L/605	0.300 (in.) L/360	59%	0.75((0.7)(0.6)W+L				
				+S)				
Lateral Reaction Top	o 122			D+0.6W				
Lateral Reaction Bo	t 122			D+0.6W				

Applied L	.oads
-----------	-------

ID	Load Type	Location	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
Axial								
1	Point	9-0-0	7880 lb	3246 lb	5140 lb	0 lb	0 lb	
2	Point	9-0-0	0 lb	0 lb	0 lb	0 lb	0 lb	
Lateral								
3	Uniform		0 PLF	0 PLF	0 PLF	45 PLF	0 PLF	

Manufacturer Info

Boozer Laminated Beam Co Anniston, AL www.boozerbeam.com

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







Client:

84 Lumber-Fayetteville #2307

CL2862-CP-3C-GL

Project #:

Date: 10/1/2025

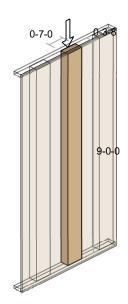
Input by: Job Name: 202510-82734

C1-B Boozer 1.9E Column 3.500" X 7.000" - PASSED

Project:

Address:

82734 Level: 2nd Flr



Design Method: ASD **Building Code:** IRC 2021 Importance: Normal - II Application: Stud In Wall Load Sharing: Yes

Spacing: 1-4-0 Unbraced Length: Continuous Orientation: Plank **Building Type:** Enclosed Zone 4 Mean Roof Height: 30-0-0 Wind Speed mph: 115 Exposure

Category: Topographical Escarpment

Feature: Feature Height: Feature Length: Horizontal Offset: 0

Factor Kzt:

Direction: Downwind Topographical

Risk Occupancy Category II LL Deflection Limit: L/360

Design OK. Design Notes

1. Axial load eccentricity of 1/6 dimension applied only to the direction perpendicular to the wall.

Page 1 of 1

- 2. Designed in accordance with NDS 2018, ASCE7 and IRC 2021.
- 3. Top and bottom ends of the member must be supported to prevent lateral movement and rotation.
- 4. Member must be continuously laterally braced in the wall plane direction.
- 5. Holes and notches are not allowed in member.
- 6. Effective length factor 0.85 for slenderness and strength calculations.
- 7. Design wind load based on leeward pressure 34 PSF. Windward pressure is 32 PSF.

Design Properties Analysis

Live 1 Snow 1.15

	Actual	Allowed	Capacity	Load Combination	E:	1900000	Fc:	2300	
Slenderness	30.9	50.0	62%		Ey:	1900000	Fv:	0	
Axial (lb.)	14802	27289	54%	D+0.75(L+S)	Fb:	2100	Fvy:	0	
Axial + Bending	0.81	1	81%	D+0.75(L+S)	Fby:	2300			
Bearing Steel (lb.)	14861	49000	30%	D+0.75(0.6W+L+S)					
LL Deflection	0.186 (in.) L/580	0.300 (in.) L/360	62%	0.75((0.7)(0.6)W+L +S)					
Lateral Reaction Top 122			D+0.6W						
Lateral Reaction Bot 122			D+0.6W						

Wind 1.6 Const. 1.25 Comments

Applied Loads

Load Type

Location

ID

Axial								
1	Point	9-0-0	8206 lb	2983 lb	5811 lb	0 lb	0 lb	
2	Point	9-0-0	0 lb	-4 lb	0 lb	0 lb	0 lb	
Latera	I							
2	Uniform		0 DI E	∩ DI E	∩ DI E	45 DI E	∩ DI E	

Dead 0.9

Manufacturer Info

Boozer Laminated Beam Co Anniston, AL www.boozerbeam.com

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



