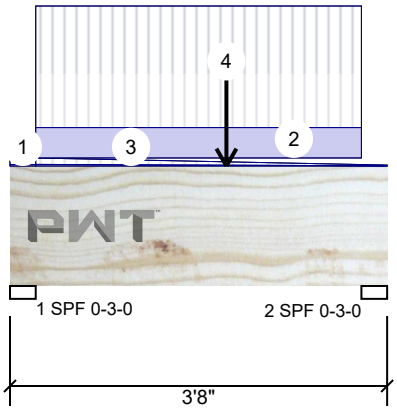
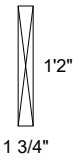
Client:	84 Lumber-Fayetteville #2307	Date:	12/16/2024
Project:	Caviness Land - CL2560	Input by:	Kyle Militzer
Address:		Job Name:	CL2560 GR
		Project #:	CL2560 GR

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

Level: 2nd Flr





Member Information

Type:	Girder	Application:	Floor
Plies:	1	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		

Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	592	194	0	0	0
2	Vertical	660	224	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.000"	Vert	35%	194 / 592	785	L	D+L
2 - SPF	3.000"	Vert	40%	224 / 660	884	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	944 ft-lb	2'1 1/4"	13396 ft-lb	7%	D+L	L
Shear	518 lb	2'3"	4655 lb	11%	D+L	L
LL Defl inch	0.005 (L/8273)	2'1 1/4"	0.110 (L/360)	4%	L	L
TL Defl inch	0.006 (L/6124)	2'1 1/4"	0.165 (L/240)	4%	D+L	L

Design Notes

1 Provide support to prevent lateral movement and rotation at the end bearings.
2 Dead Load Deflection: Instant = 0.002", Long Term = 0.003".
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 0-3-0	0-3-7	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-3-0 to 3-5-0		Top	60 PLF	240 PLF	0 PLF	0 PLF	0 PLF	
3	Tie-In	0-3-0 to 3-8-0	0-3-13 to 0-0-7	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
4	Point	2-1-4		Far Face	195 lb	465 lb	0 lb	0 lb	0 lb	J11
	Self Weight				7 PLF					

Notes

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This design is valid until 9/3/2027

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888-613-5078

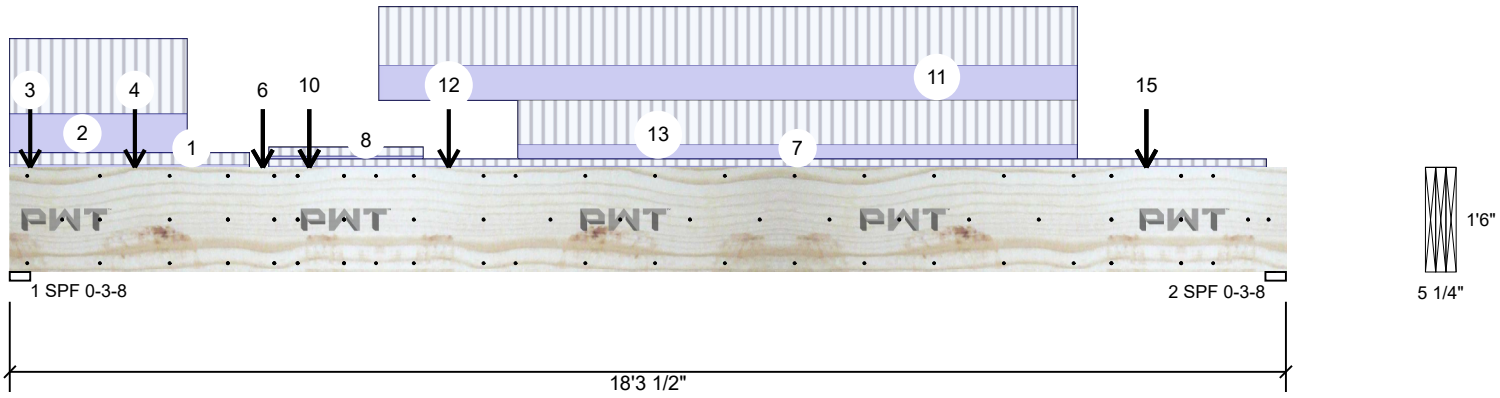
U.S. LUMBER

CSD DRAW DESIGN BUILD

Client:	84 Lumber-Fayetteville #2307	Date:	12/16/2024
Project:	Caviness Land - CL2560	Input by:	Kyle Militzer
Address:		Job Name:	CL2560 GR
		Project #:	CL2560 GR

FB1 2.0E 2900Fb PWT LVL 1.750" X 18.000" 3-Ply - PASSED

Level: 2nd Flr



Member Information

Type:	Girder	Application:	Floor
Plies:	3	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IRC 2021
Deflection LL:	360	Load Sharing:	Yes
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		
General Load			
Floor Live:	40 PSF		
Dead:	10 PSF		

Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	4297	2957	0	0	0
2	Vertical	3390	2091	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	93%	2957 / 4297	7255	L	D+L
2 - SPF	3.500"	Vert	70%	2091 / 3390	5481	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	27732 ft-lb	8'8"	65703 ft-lb	42%	D+L	L
Shear	6337 lb	1'9 1/2"	17955 lb	35%	D+L	L
LL Defl inch	0.208 (L/1031)	9'1 3/16"	0.595 (L/360)	35%	L	L
TL Defl inch	0.348 (L/615)	9' 1/16"	0.893 (L/240)	39%	D+L	L

Design Notes

1 Provide support to prevent lateral movement and rotation at the end bearings.
2 Dead Load Deflection: Instant = 0.140", Long Term = 0.211".
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 8'11 1/8" 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	Tie-In	0-0-0 to 3-5-0	1-1-5	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 2-6-8		Near Face	146 PLF	284 PLF	0 PLF	0 PLF	0 PLF	
3	Point	0-3-8		Far Face	76 lb	305 lb	0 lb	0 lb	0 lb	J9
4	Point	1-9-8		Far Face	122 lb	486 lb	0 lb	0 lb	0 lb	J8
5	Point	3-7-8		Far Face	529 lb	273 lb	0 lb	0 lb	0 lb	J8

Continued on page 2...

Notes

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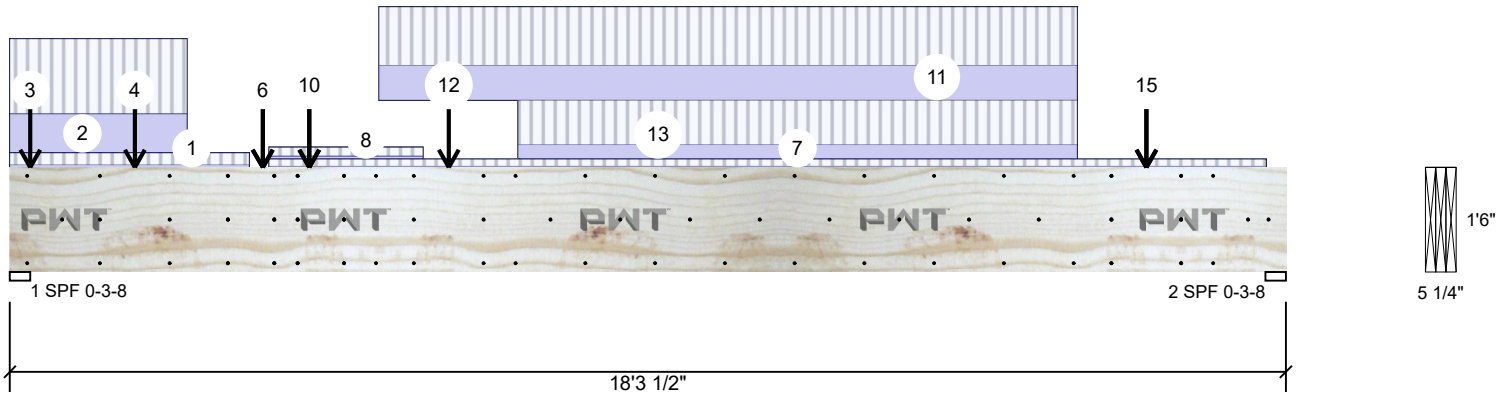
U.S. LUMBER

CSD DRAW DESIGN BUILD

Client:	84 Lumber-Fayetteville #2307	Date:	12/16/2024
Project:	Caviness Land - CL2560	Input by:	Kyle Militzer
Address:		Job Name:	CL2560 GR
		Project #:	CL2560 GR

FB1 2.0E 2900Fb PWT LVL 1.750" X 18.000" 3-Ply - PASSED

Level: 2nd Flr



...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
6	Point	3-7-8		Near Face	416 lb	207 lb	0 lb	0 lb	0 lb	J2
7	Tie-In	3-8-8 to 18-0-0	0-9-11	Top	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
8	Tie-In	3-8-8 to 5-11-0	1-1-5	Top	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
9	Point	4-3-8		Far Face	190 lb	292 lb	0 lb	0 lb	0 lb	J8
10	Point	4-3-8		Near Face	230 lb	221 lb	0 lb	0 lb	0 lb	J2
11	Part. Uniform	5-3-8 to 15-3-8		Far Face	132 PLF	219 PLF	0 PLF	0 PLF	0 PLF	
12	Point	6-3-8		Near Face	313 lb	332 lb	0 lb	0 lb	0 lb	J2
13	Part. Uniform	7-3-8 to 15-3-8		Near Face	55 PLF	166 PLF	0 PLF	0 PLF	0 PLF	
14	Point	16-3-8		Far Face	260 lb	432 lb	0 lb	0 lb	0 lb	J8
15	Point	16-3-8		Near Face	109 lb	328 lb	0 lb	0 lb	0 lb	J2
	Self Weight				27 PLF					

Notes

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CSD DRAW DESIGN BUILD

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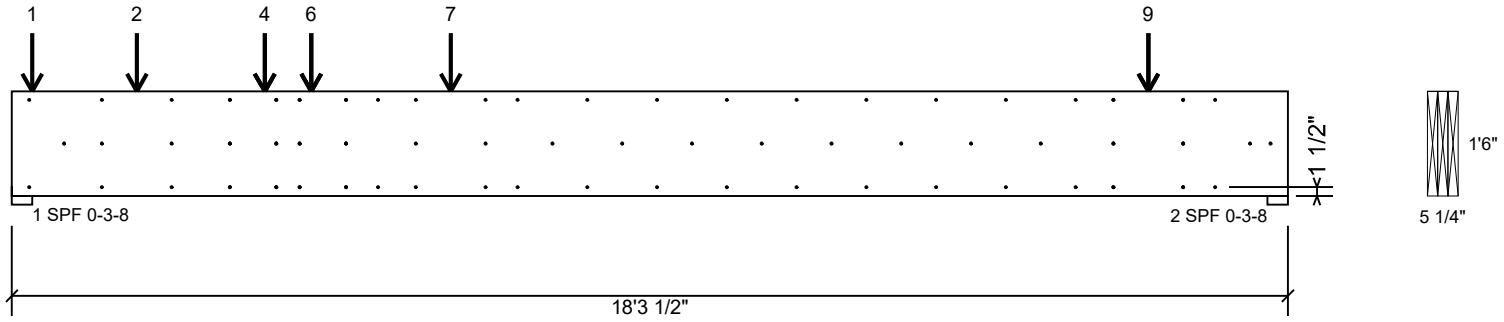
Project:	Caviness Land - CL2560	Input by:	Kyle Militzer
Address:		Job Name:	CL2560 GR
		Project #:	CL2560 GR

FB1 2.0E 2900Fb PWT LVL 1.750" X 18.000" 3-Ply - PASSED

Level: 2nd Flr



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	81.3 %
Load	286.7 PLF
Yield Limit per Foot	352.8 PLF
Yield Limit per Fastener	117.6 lb.
C_M	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 1-9-8 with a minimum of (6) – 16d Sinker Nails (.148x3.25") in the pattern shown. Nail from both sides.

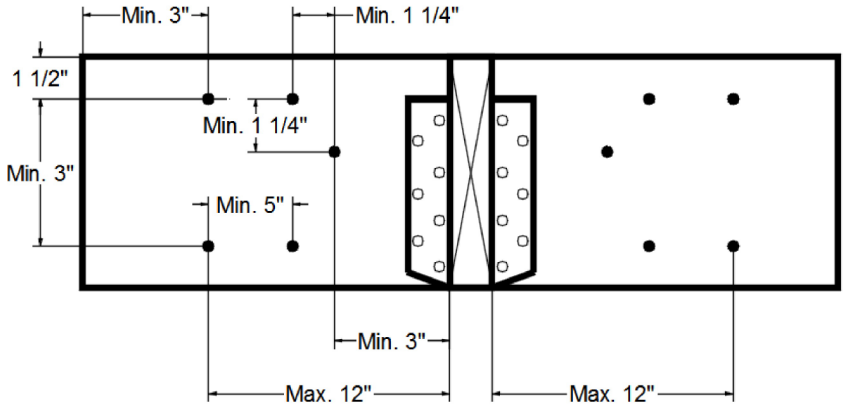
Capacity	57.5 %
Load	405.3lb.
Total Yield Limit	705.4 lb.
C_g	0.9998
C_M	1
Yield Limit per Fastener	117.6 lb.
Yield Mode	IV
Load Combination	D+L
Duration Factor	1.00

Concentrated Load

Fasten at concentrated side load at 3-7-8 with a minimum of (6) – 16d Sinker Nails (.148x3.25") in the pattern shown. Nail from both sides.

Capacity	75.8 %
Load	534.7lb.
Total Yield Limit	705.4 lb.
C_g	0.9998
C_M	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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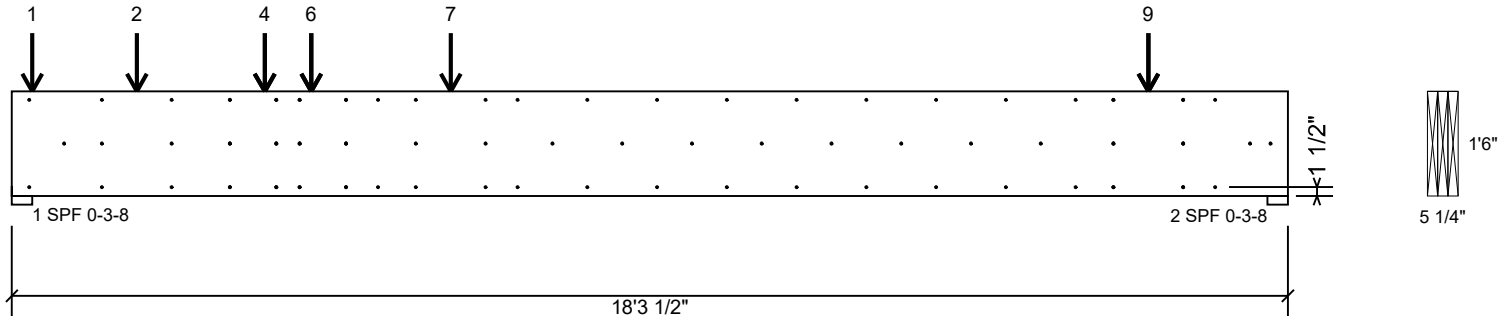
U.S. LUMBER

CSD DRAW DESIGN BUILD

Client:	84 Lumber-Fayetteville #2307	Date:	12/16/2024
Project:	Caviness Land - CL2560	Input by:	Kyle Militzer
Address:		Job Name:	CL2560 GR
		Project #:	CL2560 GR

FB1 2.0E 2900Fb PWT LVL 1.750" X 18.000" 3-Ply - PASSED

Level: 2nd Flr



Multi-Ply Analysis

Concentrated Load

Fasten at concentrated side load at 4-3-8 with a minimum of (6) – 16d Sinker Nails (.148x3.25") in the pattern shown. Nail from both sides.

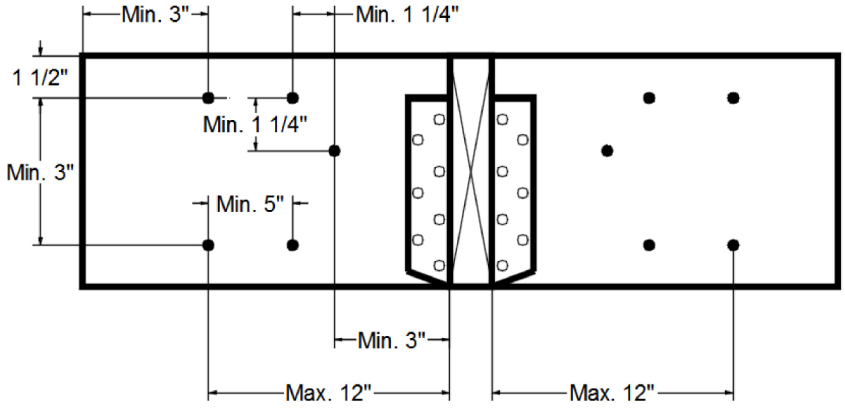
Capacity	45.6 %
Load	321.3lb.
Total Yield Limit	705.4 lb.
Cg	0.9998
Cм	1
Yield Limit per Fastener	117.6 lb.
Yield Mode	IV
Load Combination	D+L
Duration Factor	1.00

Concentrated Load

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

Capacity	61.0 %
Load	430.0lb.
Total Yield Limit	705.4 lb.
Cg	0.9998
Cм	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



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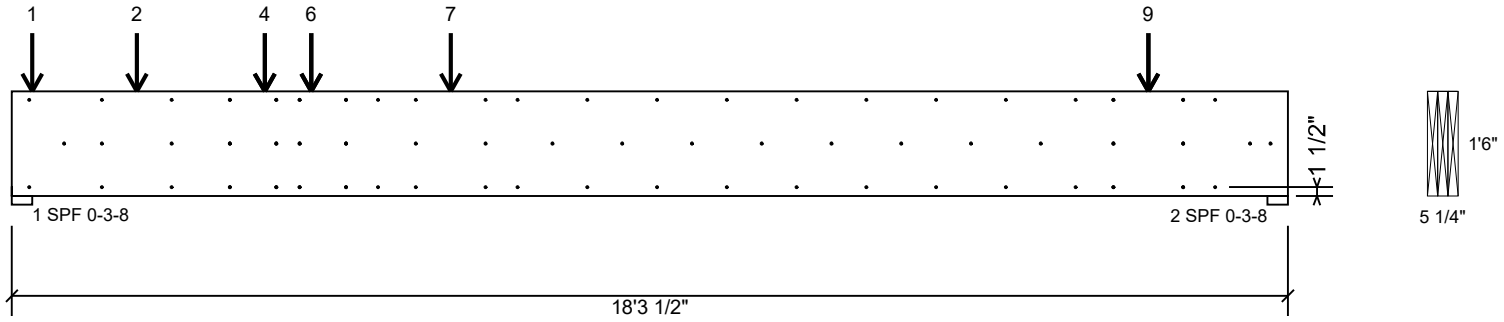
CSD DRAW DESIGN BUILD

Client:	84 Lumber-Fayetteville #2307	Date:	12/16/2024
Project:	Caviness Land - CL2560	Input by:	Kyle Militzer
Address:		Job Name:	CL2560 GR
		Project #:	CL2560 GR

FB1 2.0E 2900Fb PWT LVL 1.750" X 18.000" 3-Ply - PASSED

Level: 2nd Flr



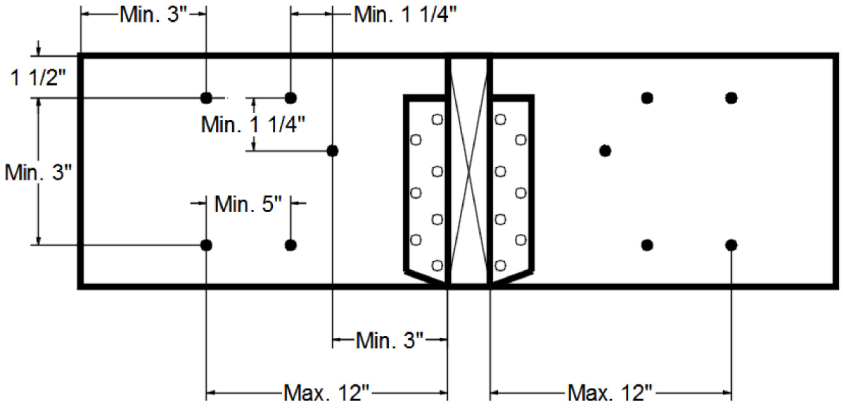
Multi-Ply Analysis

Concentrated Load

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

Capacity	65.4 %
Load	461.3lb.
Total Yield Limit	705.4 lb.
Cg	0.9998
Cм	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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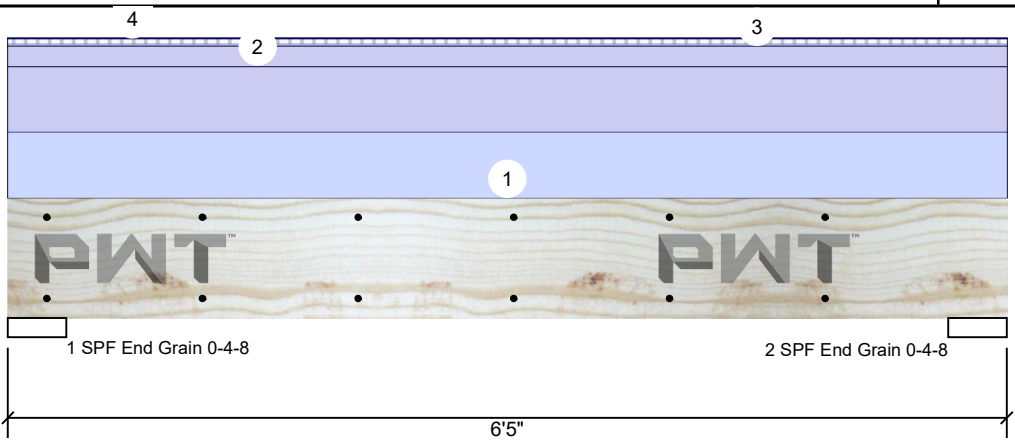
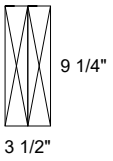
CSD DRAW DESIGN BUILD

Client:	84 Lumber-Fayetteville #2307	Date:	12/16/2024
Project:	Caviness Land - CL2560	Input by:	Kyle Militzer
Address:		Job Name:	CL2560 GR
		Project #:	CL2560 GR

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

Level: 2nd Flr





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		

Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	93	1573	0	0	1149
2	Vertical	93	1573	0	0	1149

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.500"	Vert	23%	1573 / 1149	2722	L	D+C
2 - SPF End Grain	4.500"	Vert	23%	1573 / 1149	2722	L	D+C

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3557 ft-lb	3'2 1/2"	15520 ft-lb	23%	D+C	L
Shear	1750 lb	1'1 3/4"	7689 lb	23%	D+C	L
LL Defl inch	0.025 (L/2783)	3'2 1/2"	0.193 (L/360)	13%	C	L
TL Defl inch	0.059 (L/1175)	3'2 1/2"	0.290 (L/240)	20%	D+C	L

Design Notes

1. Provide support to prevent lateral movement and rotation at the end bearings.
2. Dead Load Deflection: Instant = 0.034", Long Term = 0.051".
3. Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
4. Refer to last page of calculations for fasteners required for specified loads.
5. Girders are designed to be supported on the bottom edge only.
6. Top loads must be supported equally by all plies.
7. Top must be laterally braced at end bearings.
8. Bottom must be laterally braced at end bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 6-5-0		Top	358 PLF	0 PLF	0 PLF	0 PLF	358 PLF	
2	Part. Uniform	0-0-0 to 6-5-0		Top	108 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Tapered Start	0-0-0		Top	10 PLF	29 PLF	0 PLF	0 PLF	0 PLF	
	End	6-5-0			10 PLF	29 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-0-0 to 6-5-0		Top	5 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
	Self Weight				9 PLF					

Notes

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CSD DRAW DESIGN BUILD

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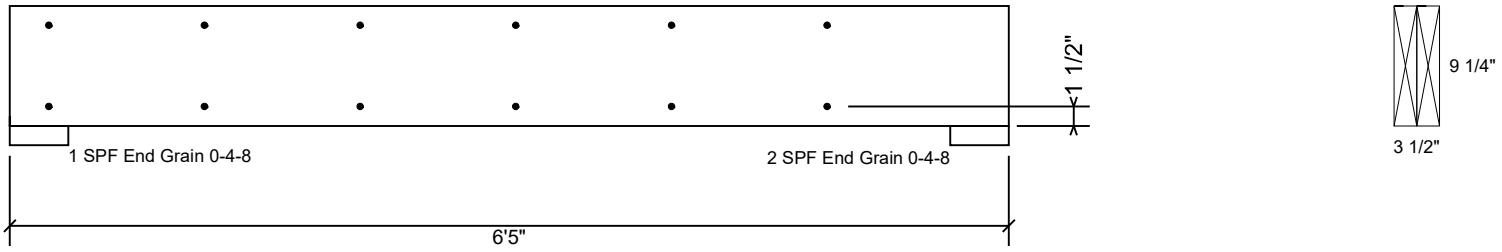
Address:		Job Name:	CL2560 GR
		Project #:	CL2560 GR

HD2-C 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.
C_M	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

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

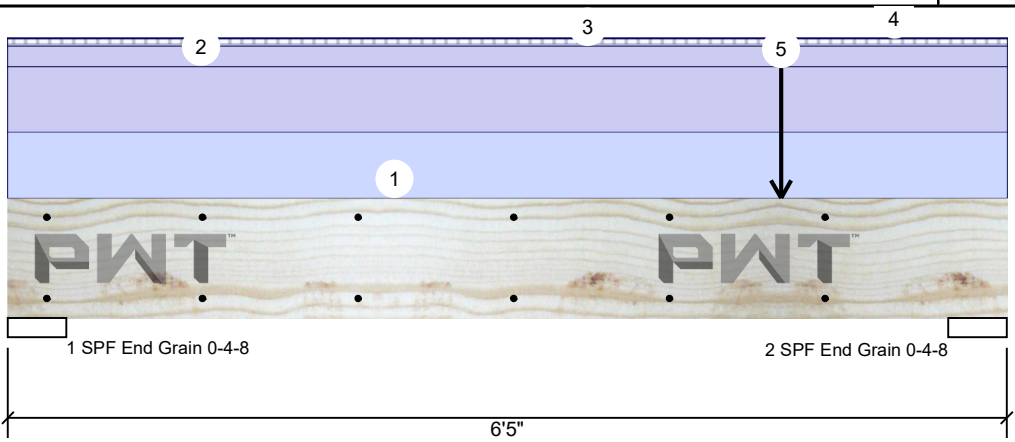
U.S. LUMBER

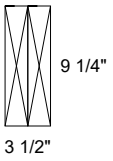
CSD DRAW DESIGN BUILD

Client:	84 Lumber-Fayetteville #2307	Date:	12/16/2024
Project:	Caviness Land - CL2560	Input by:	Kyle Militzer
Address:		Job Name:	CL2560 GR
		Project #:	CL2560 GR

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

Level: 2nd Flr





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		

Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	93	1743	0	0	1319
2	Vertical	93	2270	0	0	1846

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.500"	Vert	26%	1743 / 1319	3062	L	D+C
2 - SPF End Grain	4.500"	Vert	35%	2270 / 1846	4116	L	D+C

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4612 ft-lb	3'7 5/16"	15520 ft-lb	30%	D+C	L
Shear	3144 lb	5'3 1/4"	7689 lb	41%	D+C	L
LL Defl inch	0.034 (L/2033)	3'4 3/8"	0.193 (L/360)	18%	C	L
TL Defl inch	0.078 (L/896)	3'4 1/8"	0.290 (L/240)	27%	D+C	L

Design Notes

1 Provide support to prevent lateral movement and rotation at the end bearings.
2 Dead Load Deflection: Instant = 0.043", Long Term = 0.065".
3 Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
4 Refer to last page of calculations for fasteners required for specified loads.
5 Girders are designed to be supported on the bottom edge only.
6 Top loads must be supported equally by all plies.
7 Top must be laterally braced at end bearings.
8 Bottom must be laterally braced at end bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 6-5-0		Top	358 PLF	0 PLF	0 PLF	0 PLF	358 PLF	
2	Part. Uniform	0-0-0 to 6-5-0		Top	108 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Tapered Start	0-0-0		Top	10 PLF	29 PLF	0 PLF	0 PLF	0 PLF	
	End	6-5-0			10 PLF	29 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-0-0 to 6-5-0		Top	5 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
5	Point	4-11-10		Top	867 lb	0 lb	0 lb	0 lb	868 lb	PL2 Hip Girder

Continued on page 2...

Notes

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This design is valid until 9/3/2027

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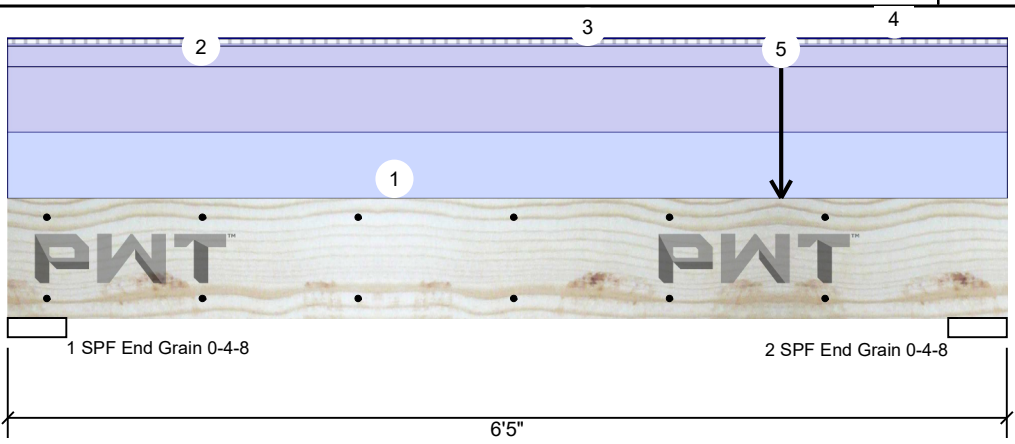
U.S. LUMBER

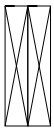
CSD DRAW DESIGN BUILD

Client:	84 Lumber-Fayetteville #2307	Date:	12/16/2024
Project:	Caviness Land - CL2560	Input by:	Kyle Militzer
Address:		Job Name:	CL2560 GR
		Project #:	CL2560 GR

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

Level: 2nd Flr





...Continued from page 1

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
	Bearing Length	0-3-8								
	Self Weight				9 PLF					

Notes

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Project:	Caviness Land - CL2560	Input by:	Kyle Militzer
Address:		Job Name:	CL2560 GR
		Project #:	CL2560 GR

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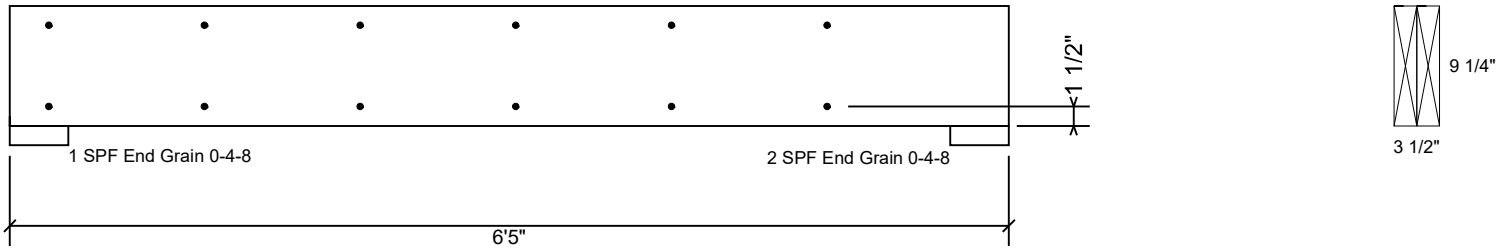
Level: 2nd Flr



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.
C_M	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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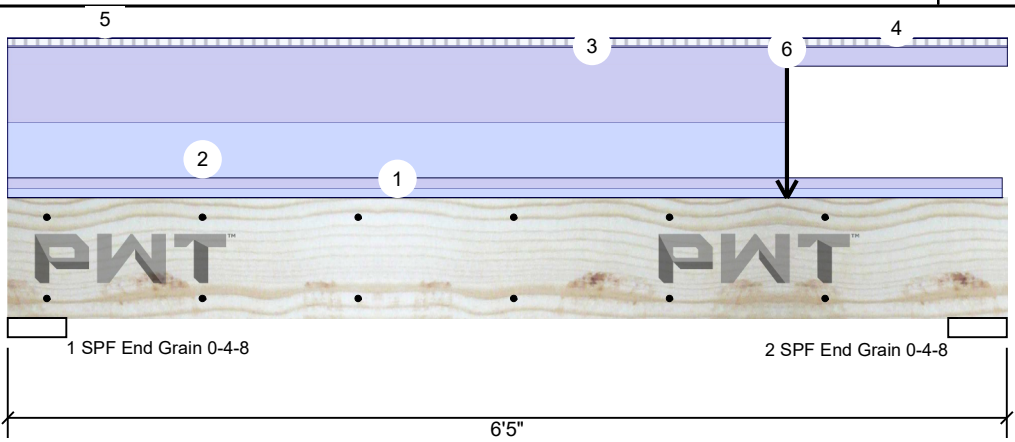
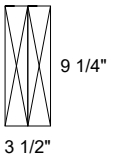
Client:	84 Lumber-Fayetteville #2307	Date:	12/16/2024
Project:	Caviness Land - CL2560	Input by:	Kyle Militzer
Address:		Job Name:	CL2560 GR
		Project #:	CL2560 GR

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

Level: 2nd Flr





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		

Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	125	1812	0	0	1391
2	Vertical	125	1944	0	0	1524

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.500"	Vert	27%	1812 / 1391	3202	L	D+C
2 - SPF End Grain	4.500"	Vert	29%	1944 / 1524	3468	L	D+C

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4634 ft-lb	3'5 7/8"	15520 ft-lb	30%	D+C	L
Shear	3189 lb	5'3 1/4"	7689 lb	41%	D+C	L
LL Defl inch	0.034 (L/2021)	3'3 7/8"	0.193 (L/360)	18%	C	L
TL Defl inch	0.078 (L/892)	3'3 3/4"	0.290 (L/240)	27%	D+C	L

Design Notes

1. Provide support to prevent lateral movement and rotation at the end bearings.
2. Dead Load Deflection: Instant = 0.044", Long Term = 0.065".
3. Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible.
4. Refer to last page of calculations for fasteners required for specified loads.
5. Girders are designed to be supported on the bottom edge only.
6. Top loads must be supported equally by all plies.
7. Top must be laterally braced at end bearings.
8. Bottom must be laterally braced at end bearings.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 6-4-9		Top	57 PLF	0 PLF	0 PLF	0 PLF	58 PLF	
2	Part. Uniform	0-0-0 to 5-0-1		Top	335 PLF	0 PLF	0 PLF	0 PLF	335 PLF	
3	Part. Uniform	0-0-0 to 6-5-0		Top	108 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Tapered Start	0-0-0		Top	10 PLF	39 PLF	0 PLF	0 PLF	0 PLF	
	End	6-5-0			10 PLF	39 PLF	0 PLF	0 PLF	0 PLF	
5	Part. Uniform	0-0-0 to 6-5-0		Top	5 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight

Continued on page 2...

Notes

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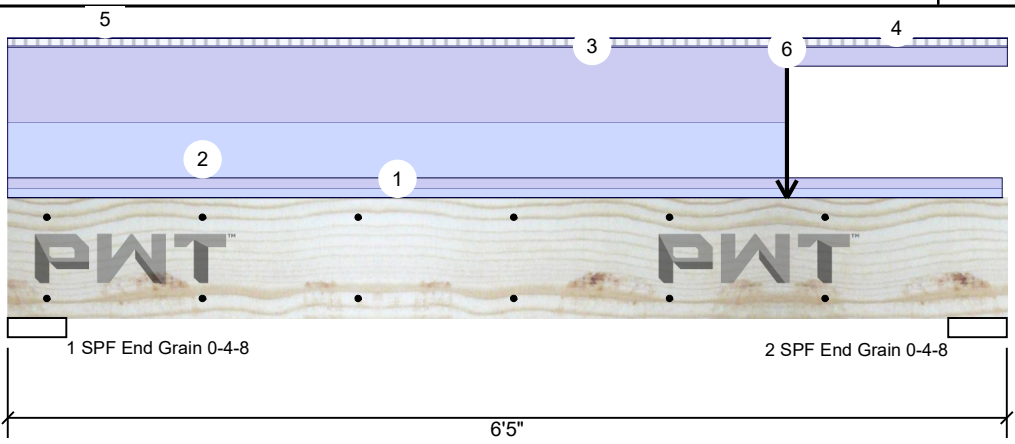
U.S. LUMBER

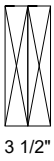
CSD DRAW DESIGN BUILD

Client:	84 Lumber-Fayetteville #2307	Date:	12/16/2024
Project:	Caviness Land - CL2560	Input by:	Kyle Militzer
Address:		Job Name:	CL2560 GR
		Project #:	CL2560 GR

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

Level: 2nd Flr





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ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
6	Point	5-0-1		Top	867 lb	0 lb	0 lb	0 lb	868 lb	PL1 Hip Girder
	Bearing Length	0-3-8								
	Self Weight				9 PLF					

Notes

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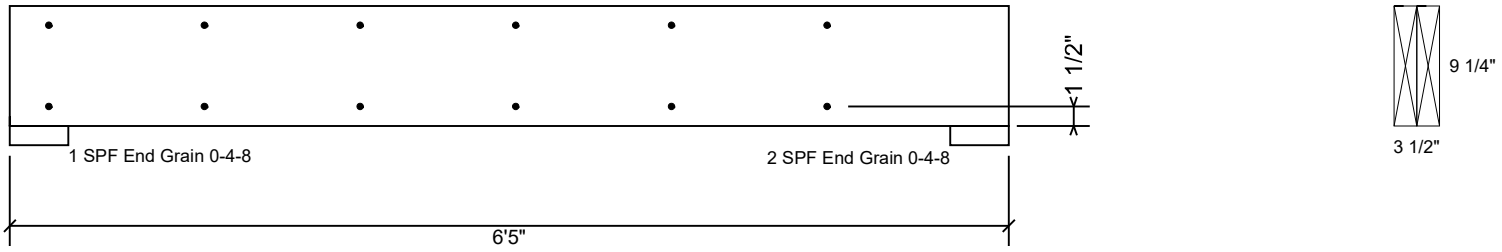
Address:		Job Name:	CL2560 GR
		Project #:	CL2560 GR

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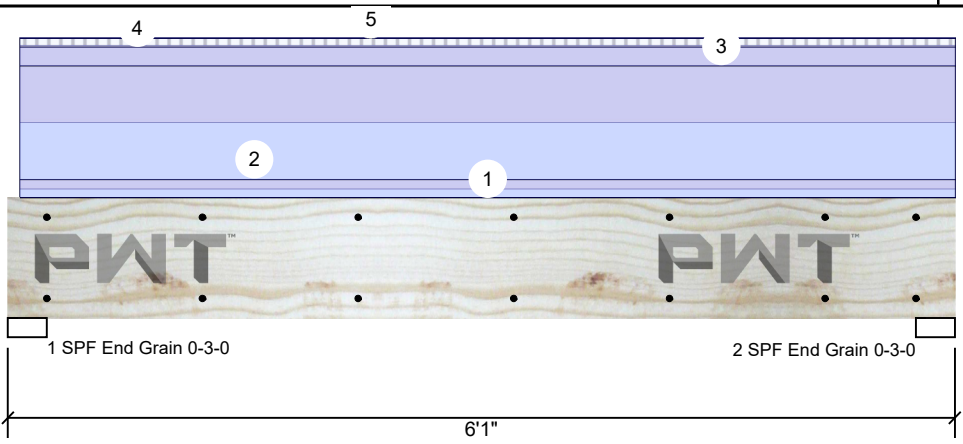
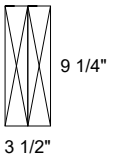
HD2 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2nd Flr





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		

Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	115	1552	0	0	1163
2	Vertical	119	1595	0	0	1195

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	34%	1552 / 1163	2714	L	D+C
2 - SPF End Grain	3.000"	Vert	35%	1595 / 1195	2790	L	D+C

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3736 ft-lb	3' 1/2"	15520 ft-lb	24%	D+C	L
Shear	1854 lb	5' 3/4"	7689 lb	24%	D+C	L
LL Defl inch	0.026 (L/2631)	3' 1/2"	0.190 (L/360)	14%	C	L
TL Defl inch	0.061 (L/1127)	3' 1/2"	0.285 (L/240)	21%	D+C	L

Design Notes

1 Provide support to prevent lateral movement and rotation at the end bearings.
2 Dead Load Deflection: Instant = 0.035", Long Term = 0.052".
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	0-1-0 to 6-1-0		Top	57 PLF	0 PLF	0 PLF	0 PLF	58 PLF	
2	Part. Uniform	0-1-0 to 6-1-0		Top	335 PLF	0 PLF	0 PLF	0 PLF	335 PLF	
3	Part. Uniform	0-1-0 to 6-1-0		Top	108 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Tapered Start	0-1-0		Top	10 PLF	39 PLF	0 PLF	0 PLF	0 PLF	
	End	6-1-0			10 PLF	39 PLF	0 PLF	0 PLF	0 PLF	
5	Part. Uniform	0-1-0 to 6-1-0		Top	5 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
	Self Weight				9 PLF					

Notes

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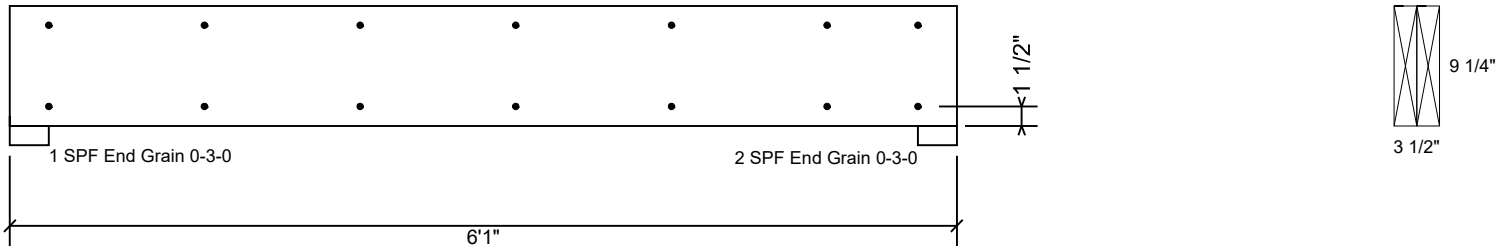
Address:		Job Name:	CL2560 GR
		Project #:	CL2560 GR

HD2 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.
C_M	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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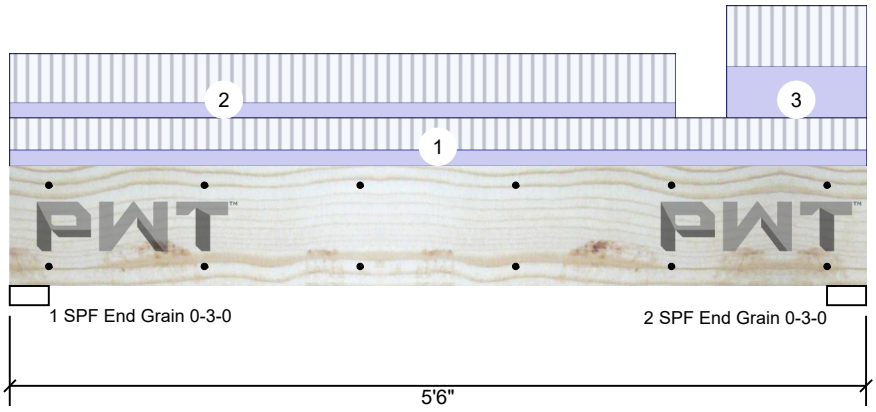
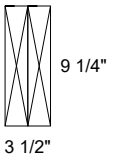
CSD DRAW DESIGN BUILD

Client:	84 Lumber-Fayetteville #2307	Date:	12/16/2024
Project:	Caviness Land - CL2560	Input by:	Kyle Militzer
Address:		Job Name:	CL2560 GR
		Project #:	CL2560 GR

HD4 2.0E 2900Fb PWT LVL 1.750" X 9.250" 2-Ply - PASSED

Level: 2nd Flr





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		

Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1561	683	0	0	0
2	Vertical	1567	860	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	28%	683 / 1561	2244	L	D+L
2 - SPF End Grain	3.000"	Vert	31%	860 / 1567	2427	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2667 ft-lb	2'8 7/8"	12416 ft-lb	21%	D+L	L
Shear	1408 lb	1' 1/4"	6151 lb	23%	D+L	L
LL Defl inch	0.025 (L/2423)	2'8 7/8"	0.171 (L/360)	15%	L	L
TL Defl inch	0.037 (L/1672)	2'9"	0.256 (L/240)	14%	D+L	L

Design Notes

1. Provide support to prevent lateral movement and rotation at the end bearings.
2. Dead Load Deflection: Instant = 0.011", Long Term = 0.017".
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 5-6-0		Top	116 PLF	226 PLF	0 PLF	0 PLF	0 PLF	J1
2	Part. Uniform	0-0-0 to 4-3-4		Top	121 PLF	347 PLF	0 PLF	0 PLF	0 PLF	J4
3	Part. Uniform	4-7-4 to 5-6-0		Top	376 PLF	450 PLF	0 PLF	0 PLF	0 PLF	J5
	Self Weight				9 PLF					

Notes

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This design is valid until 9/3/2027

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
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30097
888-613-5078

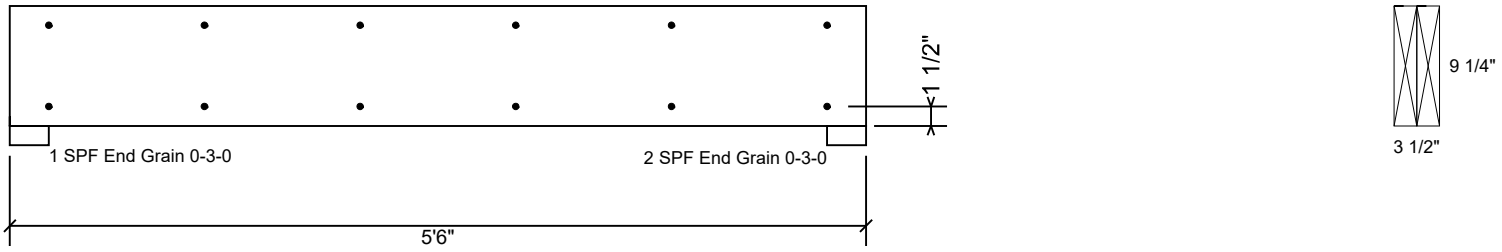
U.S. LUMBER

CSD DRAW DESIGN BUILD

Client:	84 Lumber-Fayetteville #2307	Date:	12/16/2024
Project:	Caviness Land - CL2560	Input by:	Kyle Militzer
Address:		Job Name:	CL2560 GR
		Project #:	CL2560 GR

HD4 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.
C_M	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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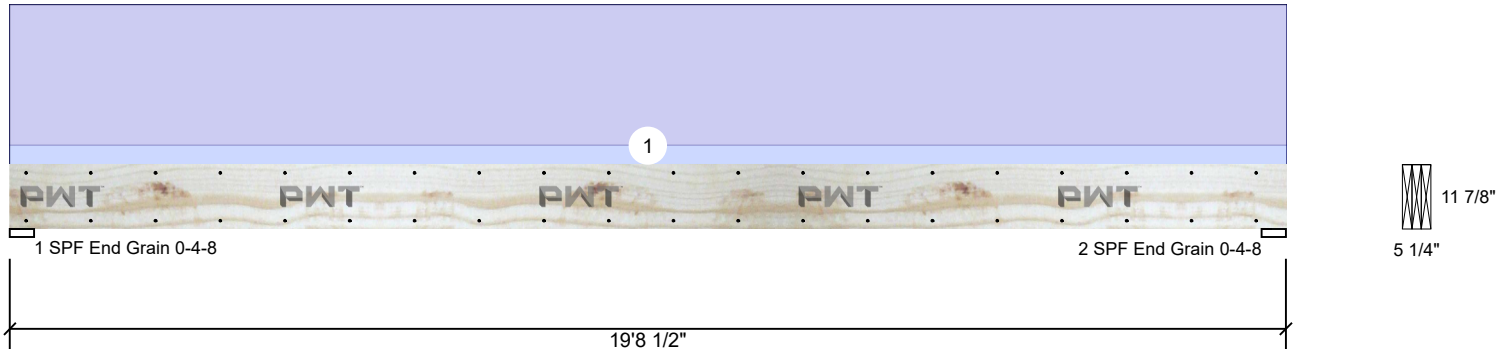
Project:	Caviness Land - CL2560	Input by:	Kyle Militzer
Address:		Job Name:	CL2560 GR
		Project #:	CL2560 GR

HD1 2.0E 2900Fb PWT LVL 1.750" X 11.875" 3-Ply - PASSED

Level: 2nd Flr



Member Information

Type:	Girder	Application:	Floor
Plies:	3	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IRC 2021
Deflection LL:	360	Load Sharing:	Yes
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		
General Load			
Floor Live:	40 PSF		
Dead:	10 PSF		

Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1555	0	0	197
2	Vertical	0	1555	0	0	197

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.500"	Vert	10%	1555 / 197	1752	L	D+C
2 - SPF End Grain	4.500"	Vert	10%	1555 / 197	1752	L	D+C

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7185 ft-lb	9'10 1/4"	27943 ft-lb	26%	D	Uniform
Shear	1340 lb	18'4 1/8"	10661 lb	13%	D	Uniform
LL Defl inch	0.042 (L/5399)	9'10 5/16"	0.636 (L/360)	7%	C	L
TL Defl inch	0.377 (L/607)	9'10 5/16"	0.954 (L/240)	40%	D+C	L

Design Notes

1. Provide support to prevent lateral movement and rotation at the end bearings.
2. Dead Load Deflection: Instant = 0.335", Long Term = 0.502".
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.

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 19-8-8		Top	140 PLF	0 PLF	0 PLF	0 PLF	20 PLF	
	Self Weight				18 PLF					

Notes

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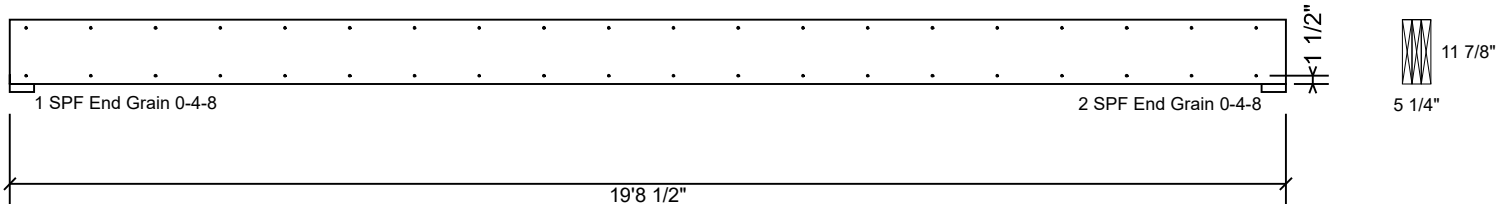
HD1 2.0E 2900Fb PWT LVL 1.750" X 11.875" 3-Ply - PASSED

Level: 2nd Flr



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.
C_M	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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