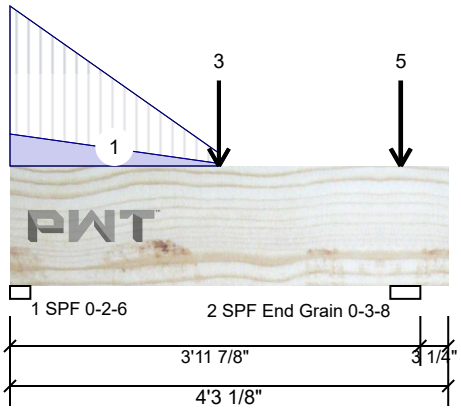
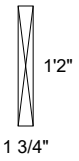
Client:	84 Lumber-Fayetteville #2307	Date:	1/31/2025
Project:	Caviness Land - CC2695	Input by:	Kyle Militzer
Address:	Lot 503 Creekside Oaks South	Job Name:	CC2695 GL-503 CS
		Project #:	CC2695 GL-503 CS

FB3 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 2018
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	352	170	0	0	0
2	Vertical	903	700	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	30%	170 / 352	522	L_	D+L
2 - SPF End Grain	3.500"	Vert	32%	700 / 903	1603	L_	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	943 ft-lb	2' 3/8"	13396 ft-lb	7%	D+L	L_
Shear	518 lb	2'6 3/8"	4655 lb	11%	D+L	L_
LL Defl inch	0.005 (L/9664)	2' 3/8"	0.124 (L/360)	4%	L	LL
TL Defl inch	0.007 (L/6567)	2' 3/8"	0.185 (L/240)	4%	D+L	LL
LL Cant	-0.000 (2L/18513)	Rt Cant	0.200 (2L/240)	0%	L	LL
TL Cant	-0.001 (2L/12580)	Rt Cant	0.300 (2L/180)	0%	D+L	LL

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 = 0.002", 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 2-0-6	0-5-7 to 0-0-7	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
2	Point	2-0-6		Far Face	251 lb	447 lb	0 lb	0 lb	0 lb	J1
3	Point	2-0-6		Near Face	60 lb	239 lb	0 lb	0 lb	0 lb	J6
4	Point	3-9-9		Near Face	42 lb	168 lb	0 lb	0 lb	0 lb	J3
5	Point	3-9-10		Far Face	482 lb	381 lb	0 lb	0 lb	0 lb	J8
	Self Weight				7 PLF					

Notes

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This design is valid until 9/3/2027

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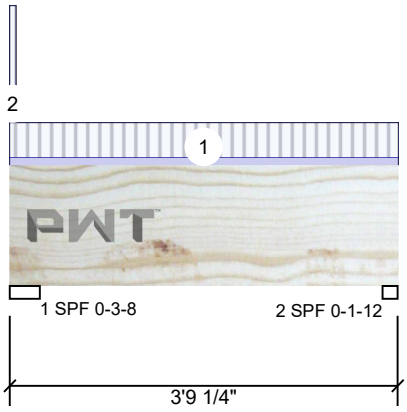
U.S. LUMBER

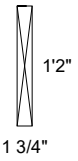
CSD DRAW DESIGN BUILD

Client:	84 Lumber-Fayetteville #2307	Date:	1/31/2025
Project:	Caviness Land - CC2695	Input by:	Kyle Militzer
Address:	Lot 503 Creekside Oaks South	Job Name:	CC2695 GL-503 CS
		Project #:	CC2695 GL-503 CS

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 2018
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	87	35	0	0	0
2	Vertical	74	31	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	5%	35 / 87	122	L	D+L
2 - SPF	1.750"	Vert	8%	31 / 74	106	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	87 ft-lb	1'11 1/2"	13396 ft-lb	1%	D+L	L
Shear	29 lb	1'5 1/2"	4655 lb	1%	D+L	L
LL Defl inch	0.000 (L/91500)	1'11 9/16"	0.115 (L/360)	0%	L	L
TL Defl inch	0.001 (L/64401)	1'11 9/16"	0.173 (L/240)	0%	D+L	L

Design Notes

1 Provide support to prevent lateral movement and rotation at the end bearings.
2 Dead Load Deflection: Instant = 0.000", Long Term = 0.000".
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 3-9-4	1-0-5	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 0-0-11		Top	28 PLF	112 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				7 PLF					

Notes

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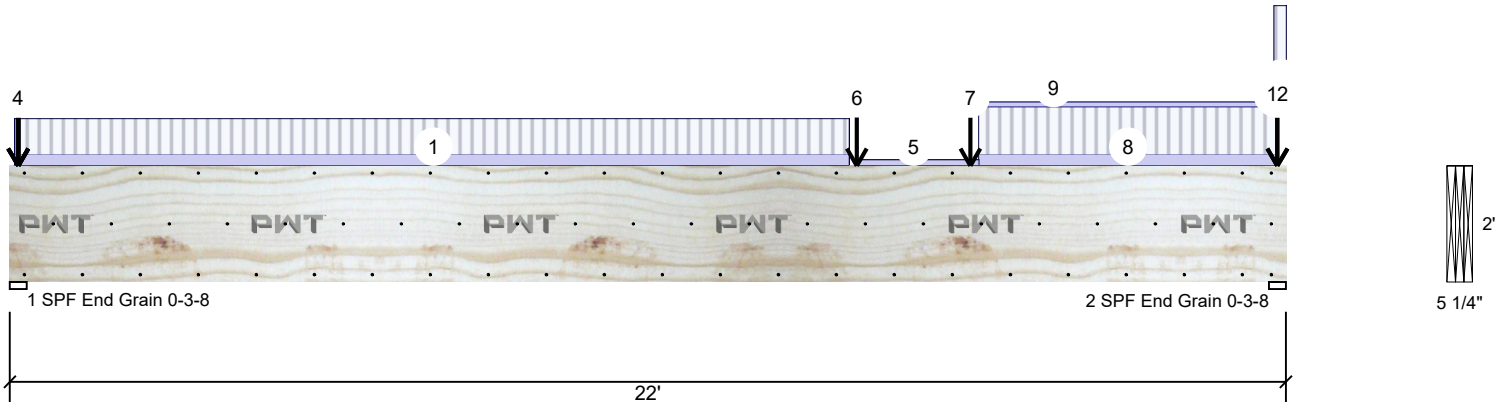
CSD DRAW DESIGN BUILD

Client:	84 Lumber-Fayetteville #2307	Date:	1/31/2025
Project:	Caviness Land - CC2695	Input by:	Kyle Militzer
Address:	Lot 503 Creekside Oaks South	Job Name:	CC2695 GL-503 CS
		Project #:	CC2695 GL-503 CS

FB1 2.0E 2900Fb PWT LVL 1.750" X 24.000" 3-Ply - PASSED

Level: 2nd Flr



Member Information

Type:	Girder	Application:	Floor
Plies:	3	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IRC 2018
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	76	478	0	0	0
2	Vertical	82	463	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	4%	478 / 76	554	L	D+L
2 - SPF End Grain	3.500"	Vert	4%	463 / 82	546	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2686 ft-lb	11' 9/16"	110274 ft-lb	2%	D+L	L
Shear	408 lb	19'8 1/2"	23940 lb	2%	D+L	L
LL Defl inch	0.003 (L/84888)	10'10 7/16"	0.719 (L/360)	0%	L	L
TL Defl inch	0.021 (L/12284)	11' 1/4"	1.078 (L/240)	2%	D+L	L

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 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 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	Tie-In	0-1-2 to 14-5-8	0-2-15 to 0-2-15	Top	10 PSF	30 PSF	0 PSF	0 PSF	0 PSF	
2	Point	0-1-12		Top	24 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
3	Point	0-1-12		Top	24 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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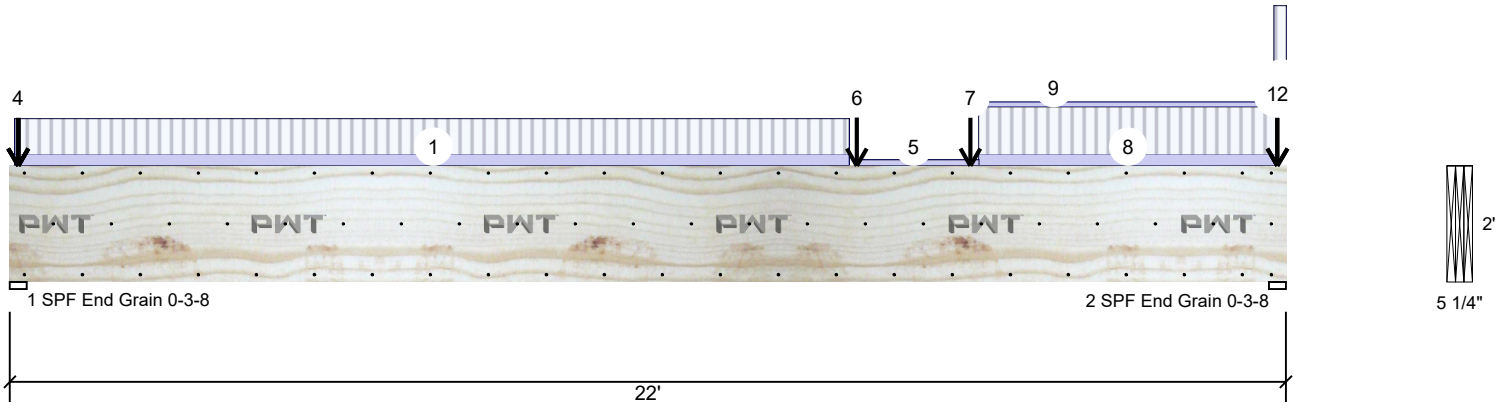
U.S. LUMBER

CSD DRAW DESIGN BUILD

Client:	84 Lumber-Fayetteville #2307	Date:	1/31/2025
Project:	Caviness Land - CC2695	Input by:	Kyle Militzer
Address:	Lot 503 Creekside Oaks South	Job Name:	CC2695 GL-503 CS
		Project #:	CC2695 GL-503 CS

FB1 2.0E 2900Fb PWT LVL 1.750" X 24.000" 3-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
4	Point	0-1-12		Top	1 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
5	Tie-In	14-6-13 to 16-8-8	0-2-15 to 0-2-15	Top	5 PSF	0 PSF	0 PSF	0 PSF	0 PSF	
6	Point	14-7-4		Top	10 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
7	Point	16-6-12		Top	10 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
8	Tie-In	16-8-8 to 21-10-4	0-2-15 to 0-2-15	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
9	Part. Uniform	16-8-8 to 21-8-8		Top	1 PLF	0 PLF	0 PLF	0 PLF	0 PLF	
10	Tie-In	21-9-10 to 22-0-0	0-5-1	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
11	Point	21-10-4		Top	4 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
12	Point	21-10-4		Top	19 lb	0 lb	0 lb	0 lb	0 lb	Wall Self Weight
	Bearing Length	0-3-8								
	Self Weight				36 PLF					

Notes

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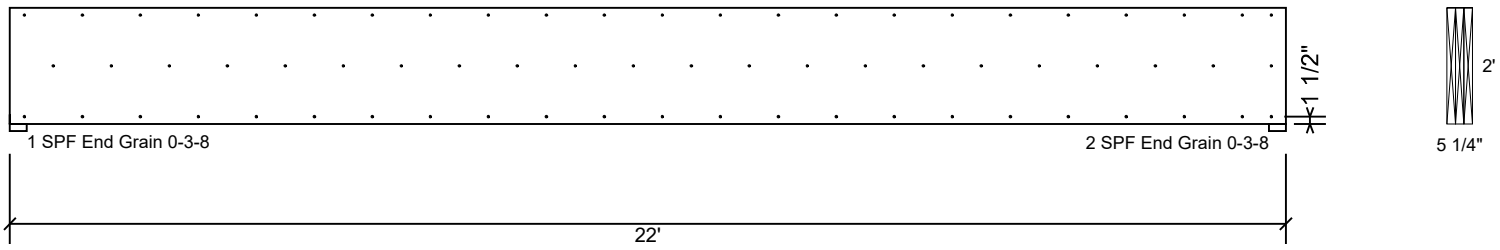
Project:	Caviness Land - CC2695	Input by:	Kyle Militzer
Address:	Lot 503 Creekside Oaks South	Job Name:	CC2695 GL-503 CS
		Project #:	CC2695 GL-503 CS

FB1 2.0E 2900Fb PWT LVL 1.750" X 24.000" 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.. 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	352.8 PLF
Yield Limit per Fastener	117.6 lb.
Cм	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

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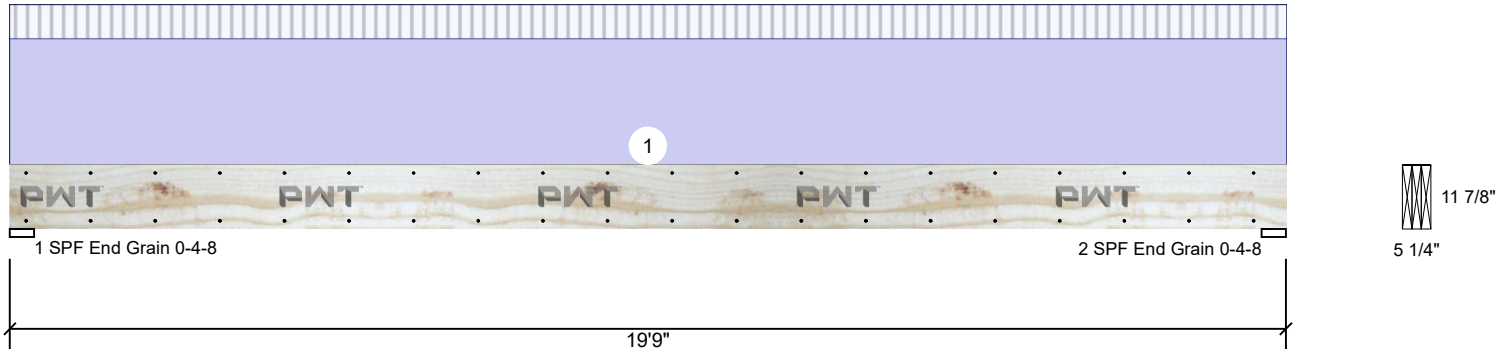
CSD DRAW DESIGN BUILD

Client:	84 Lumber-Fayetteville #2307	Date:	1/31/2025
Project:	Caviness Land - CC2695	Input by:	Kyle Militzer
Address:	Lot 503 Creekside Oaks South	Job Name:	CC2695 GL-503 CS
		Project #:	CC2695 GL-503 CS

HD3 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 2018
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	395	1638	0	0	0
2	Vertical	395	1638	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	4.500"	Vert	11%	1638 / 395	2033	L	D+L
2 - SPF End Grain	4.500"	Vert	11%	1638 / 395	2033	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	9411 ft-lb	9'10 1/2"	31048 ft-lb	30%	D+L	L
Shear	1752 lb	1'4 3/8"	11845 lb	15%	D+L	L
LL Defl inch	0.086 (L/2683)	9'10 9/16"	0.638 (L/360)	13%	L	L
TL Defl inch	0.440 (L/521)	9'10 9/16"	0.956 (L/240)	46%	D+L	L

Design Notes

1. Provide support to prevent lateral movement and rotation at the end bearings.
2. Dead Load Deflection: Instant = 0.355", Long Term = 0.532".
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 19-9-0		Top	148 PLF	40 PLF	0 PLF	0 PLF	0 PLF	
	Self Weight				18 PLF					

Notes

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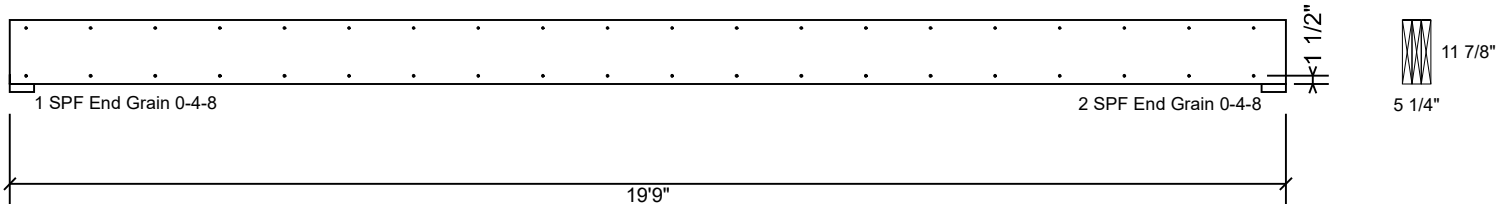
Level: 2nd Flr



Multi-Ply Analysis

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