

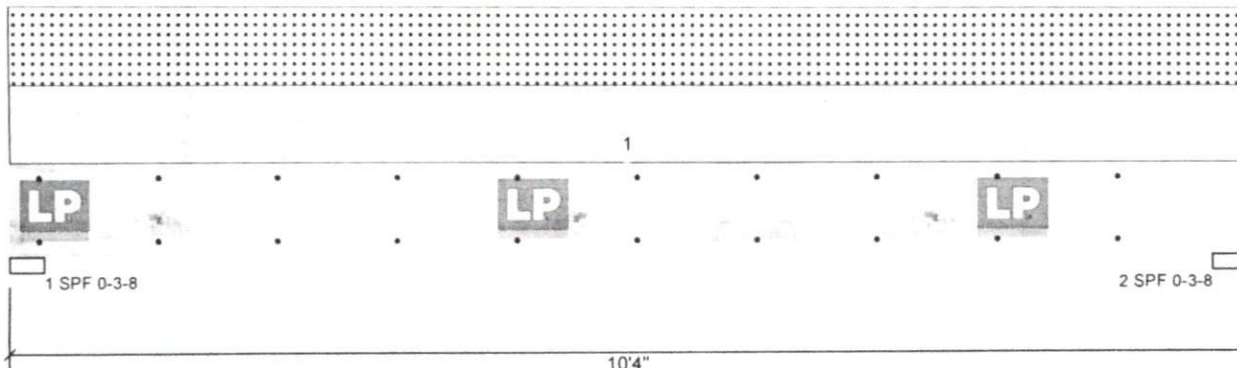


Client: Front Porch Building Company
Project:
Address:

Date: 4/9/2025
Input by:
Job Name: Screen Porch
Project #:

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B2 LP-LVL 2900Fb-2.0E 1.750" X 9.250" 2-Ply - PASSED Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	1185	1137	0	0
2	Vertical	0	1185	1137	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	45%	1185 / 1137	2321	L	D+S
2 - SPF	3.500"	Vert	45%	1185 / 1137	2321	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5476 ft-lb	5'2"	14278 ft-lb	38%	D+S	L
Shear	1844 lb	9'3 1/4"	7074 lb	26%	D+S	L
LL Defl inch	0.111 (L/1063)	5'2"	0.247 (L/480)	45%	S	L
TL Defl inch	0.228 (L/520)	5'2"	0.329 (L/360)	69%	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings.
- 2 Dead Load Deflection: Instant = 0.116", Long Term = 0.174".
- 3 Fasten all plies using 2 rows of 12d Box nails (.128x3.25") 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	Uniform		11-0-0	Top	20 PSF	0 PSF	20 PSF	0 PSF	0 PSF	
	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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Fuquay-Varina

This design is valid until 11/16/2026

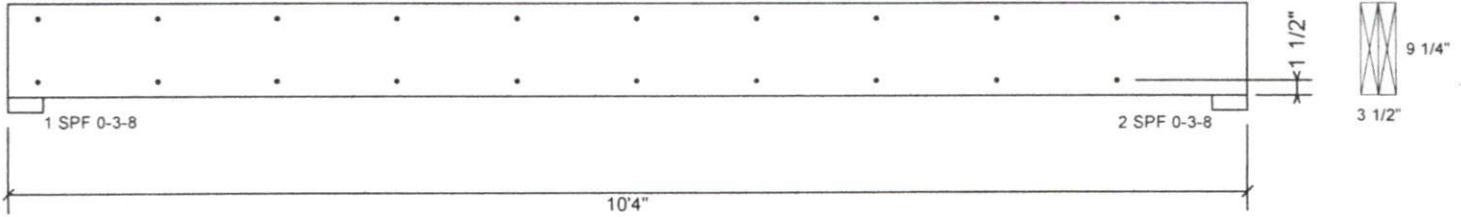


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Multi-Ply Analysis

Fasten all plies using 2 rows of 12d Box nails (.128x3.25") 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	185.4 PLF
Yield Limit per Fastener	92.7 lb.
C _m	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

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