



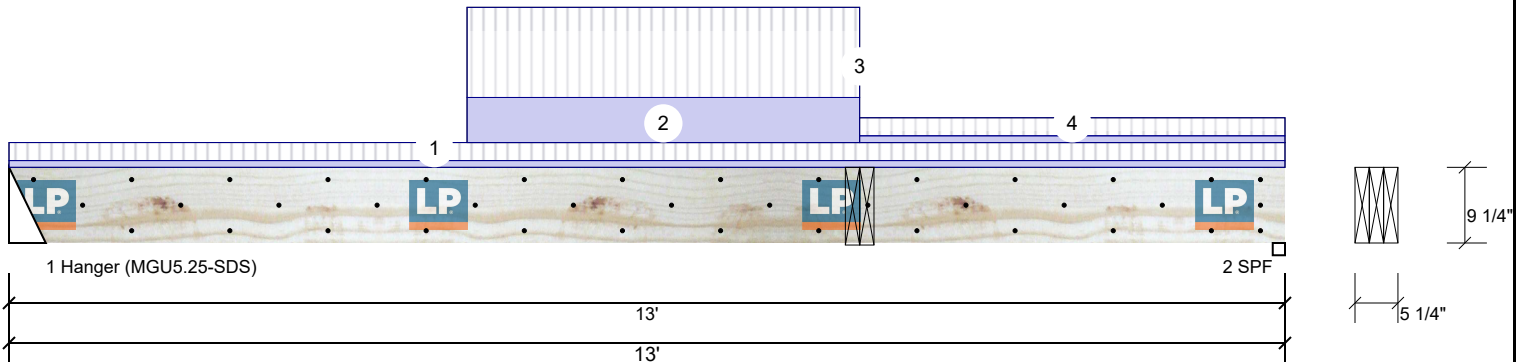
Client:
Project:
Address:

Date: 7/8/2022
Input by: Thomas Hamrick
Job Name:
Project #:

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B1 LP-LVL 2900Fb-2.0E 1.750" X 9.250" 3-Ply - PASSED

Level: Level



Member Information

Type: Girder
Plies: 3
Moisture Condition: Dry
Deflection LL: 360
Deflection TL: 240
Importance: Normal - II
Temperature: Temp <= 100°F
General Load
Floor Live: 40 PSF
Dead: 15 PSF

Application: Floor
Design Method: ASD
Building Code: IBC/IRC 2015
Load Sharing: Yes
Deck: Not Checked

Reactions PATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1447	694	0	0	0
2	Vertical	2282	1013	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - Hanger	4.500"	Vert	12%	694 / 1447	2141	L	D+L
2 - SPF	1.500"	Vert	98%	1013 / 2282	3295	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	9165 ft-lb	7'4 3/4"	19369 ft-lb	0.473 (47%)	D+L	L
Shear	2927 lb	12'1 1/4"	9227 lb	0.317 (32%)	D+L	L
LL Defl inch	0.266 (L/569)	6'10 5/16"	0.421 (L/360)	0.633 (63%)	L	L
TL Defl inch	0.392 (L/387)	6'10 1/8"	0.631 (L/240)	0.621 (62%)	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 = 0.125", Long Term = 0.188".
- 3 Fasten all plies using 3 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 Fill all hanger nailing holes.
- 6 Girders are designed to be supported on the bottom edge only.
- 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 13-0-0	3-0-0	Far Face	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
2	Part. Uniform	4-8-0 to 8-8-0		Near Face	100 PLF	200 PLF	0 PLF	0 PLF	0 PLF	
3	Point	8-8-0		Near Face	86 lb	156 lb	0 lb	0 lb	0 lb	B2 Brg 2
4	Part. Uniform	8-8-0 to 13-0-0	7-0-0	Near Face	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
	Self Weight				14 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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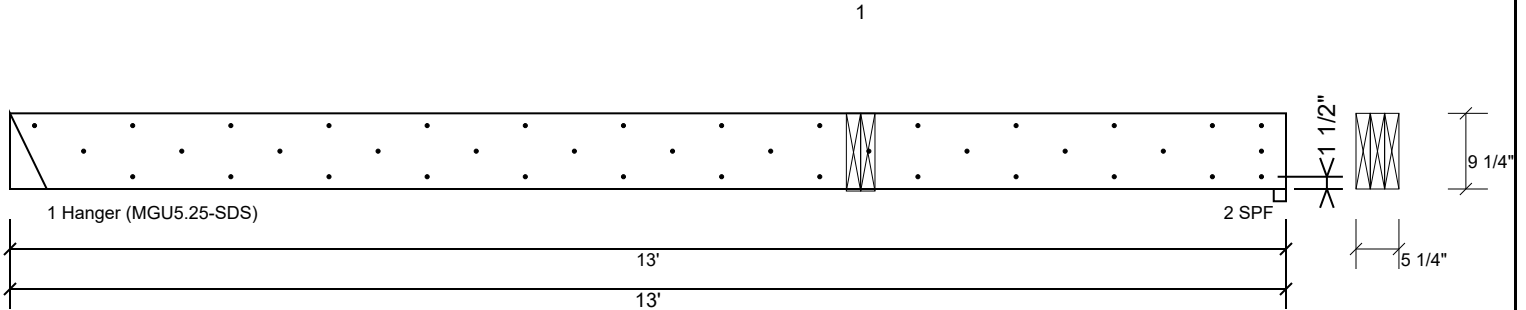
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This design is valid until 11/3/2024

B1 LP-LVL 2900Fb-2.0E 1.750" X 9.250" 3-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 12d Box nails (.128x3.25") at 12" o.c.. Nail from both sides. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	92.3 %
Load	256.7 PLF
Yield Limit per Foot	278.2 PLF
Yield Limit per Fastener	92.7 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	D+L
Duration Factor	1.00

Notes

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