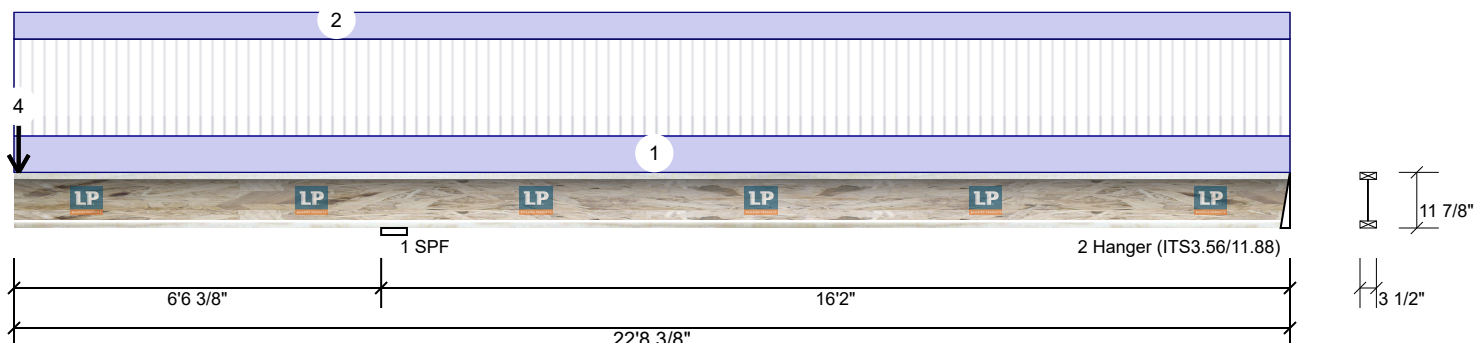


## Level: Level



### Reactions PATTERNED 1b (Uplift)

Type:	Joist	Application:	Floor	Brg	Live	Dead	Snow	Wind	Const	
Spacing:	12" o.c.	Design Method:	ASD	1	641	670	56	0	0	
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015	2	321 (-50)	100	0 (-16)	0	0	
Deflection LL:	480	Load Sharing:	No							
Deflection TL:	360	Deck:	23/32 APA Rated Sturd-I-FloorPlywood Nailed and Glued							
Importance:	Normal									
Temperature:	Temp <= 100°F	Vibration:	OK							
General Load		Vibration Span:	20-9-1 (31%)							
Floor Live:	40 PSF	Vibration Span:	20-9-1 (76%)							
Dead:	15 PSF									
Analysis Results				Bearings						
				Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
				1 - SPF	5.500"	42%	670 / 641	1311	LL	D+L
				2 - Hanger	2.000"	32%	100 / 321	421	_L	D+L

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-2568 ft-lb	6'9 1/8"	6965 ft-lb	0.369 (37%)	D+L	LL
Pos Moment	1300 ft-lb	16'3 13/16"	6965 ft-lb	0.187 (19%)	D+L	_L
Shear	685 lb	6'9 1/8"	1625 lb	0.421 (42%)	D+L	LL
LL Defl inch	0.111 (L/1714)	14'8 3/16"	0.396 (L/480)	0.280 (28%)	L	_L
TL Defl inch	0.109 (L/1743)	15'4 9/16"	0.528 (L/360)	0.210 (21%)	D+L	_L
LL Bare Defl	0.123 (L/1546)	14'8 3/16"	0.528 (L/360)	0.230 (23%)	L	40 PSF L
LL Cant	0.126 (2L/1242)	Lt Cant	0.327 (2L/480)	0.390 (39%)	L	L_
TL Cant	0.313 (2L/501)	Lt Cant	0.435 (2L/360)	0.720 (72%)	D+L	L_

## Design Notes

- 1 Provide restraint at supports to ensure lateral stability.
- 2 Dead Load Deflection: Instant = -0.002", Long Term = -0.003"
- 3 Fill all hanger nailing holes.
- 4 Warning Note: left cant exceeds 1/3 of back span, wind uplift may need to be checked.
- 5 Warning note: Floor joist cantilever greater than 4 feet may exhibit excessive vibration. It is the responsibility of the building designer to ensure component suitability.
- 6 Bottom flange must be laterally braced at a maximum of 10'2" o.c.

ID	Load Type	Location	Trib Width	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform		1-0-0	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	FLOOR
2	Uniform		1-0-0	11 PSF	0 PSF	0 PSF	0 PSF	0 PSF	GYPCRETE
3	Point	0-1-0		150 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL

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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Corp. 414 Union St Suite 2000, Nashville, TN 37219

### Manufacturer Info

Louisiana-Pacific Corp  
414 Union Street, Suite 2000  
Nashville, TN 37219  
(888) 820-0325  
[www.lpcorp.com](http://www.lpcorp.com)  
APA: PR-L238, ICC-ES: ESR-1305,  
LADBS: RR-25099, Florida: FL15401

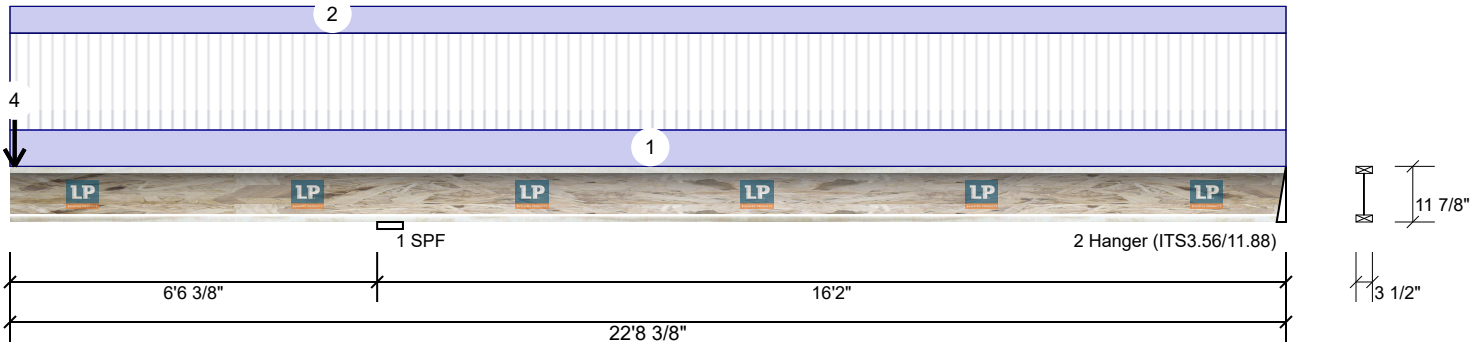
NELSON YOUNG LUMBER COMPANY  
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608-884-3316

This design is valid until  
10/31/2020



**LIVING ROOM CANTILEVER LPI 42Plus 11.875" - PASSED**

Level: Level



...Continued from page 1

ID	Load Type	Location	Trib Width	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
	Bearing Length	0-1-8							
4	Point	0-1-0		30 PLF	0 PLF	40 PLF	0 PLF	0 PLF	ROOF
	Bearing Length	0-1-8							

**Notes**

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608-884-3316