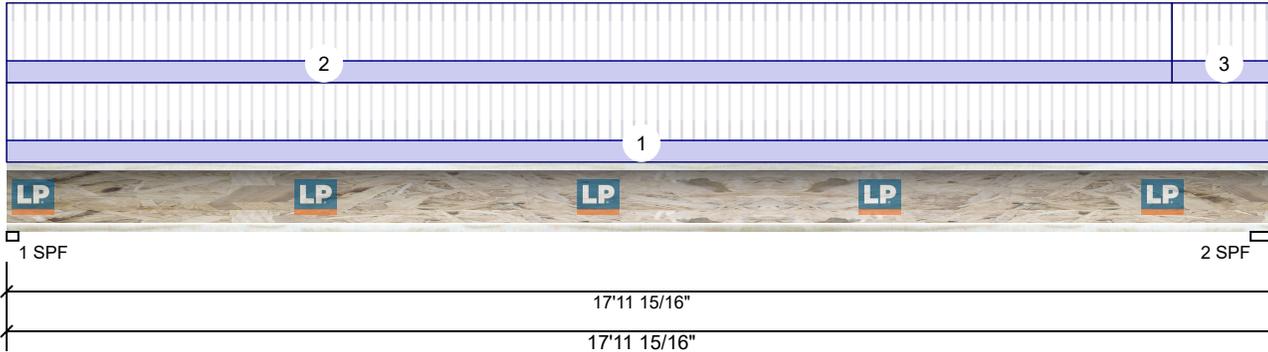


# J1-A LPI 20Plus 11.875" - PASSED

Level: Ground Floor



## Member Information

Type:	Joist
Spacing:	18.5" o.c.
Moisture Condition:	Dry
Deflection LL:	480
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:	No
Deck:	23/32 APA Rated Sturd-I-FloorOSB Nailed and Glued

## Reactions PATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	436	164	0	0	0
2	449	168	0	0	0

## Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	2.000"	60%	164 / 436	600	L	D+L
2 - SPF	4.375"	53%	168 / 449	617	L	D+L

## Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2606 ft-lb	8'10 13/16"	3755 ft-lb	0.694 (69%)	D+L	L
Shear	596 lb	17'8 5/16"	1485 lb	0.401 (40%)	D+L	L
LL Defl inch	0.299 (L/707)	8'10 13/16"	0.440 (L/480)	0.680 (68%)	L	L
TL Defl inch	0.411 (L/514)	8'10 13/16"	0.879 (L/240)	0.470 (47%)	D+L	L

## Design Notes

- 1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
- 2 Dead Load Deflection: Instant = 0.112", Long Term = 0.168"
- 3 Bottom flange braced at bearings.

ID	Load Type	Location	Trib Width	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 17-11-15	0-9-4	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 16-6-3	0-5-7	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
3	Part. Uniform	16-6-3 to 17-11-15	0-6-2	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	

## 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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This design is valid until  
10/31/2021