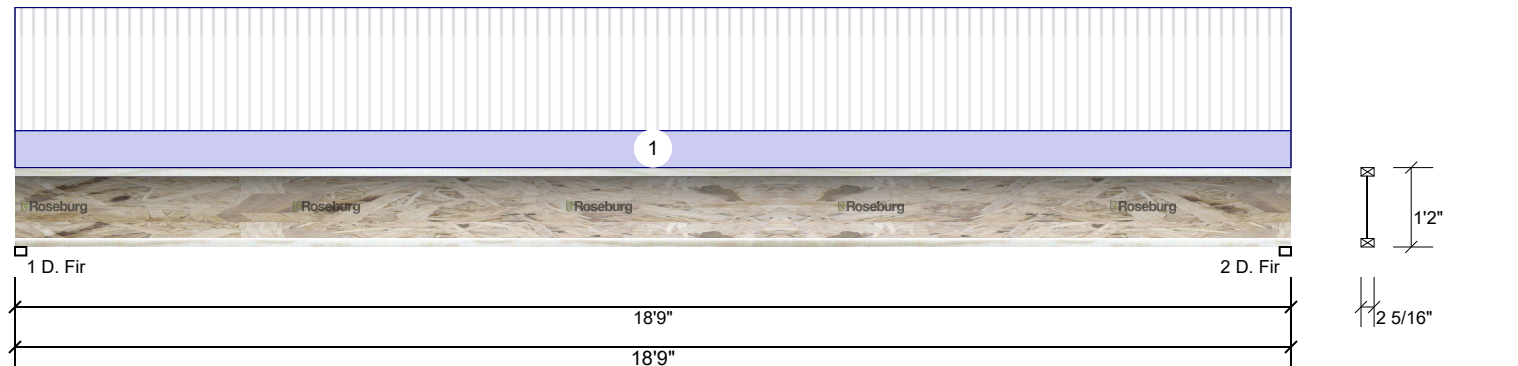


MAIN J1 RFPI 40 14.000" - PASSED

Level: Level



Member Information

Type:	Joist	Application:	Floor
Spacing:	16" o.c.	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC 2018
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	3/4 APA Rated Sturd-I-FloorOSB Nailed and Glued
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	500	150	0	0	0
2	Vertical	500	150	0	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - D. Fir	2.000"	Vert	52%	150 / 500	650	L	D+L
2 - D. Fir	2.000"	Vert	52%	150 / 500	650	L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2980 ft-lb	9'4 1/2"	5785 ft-lb	0.515 (52%)	D+L	L
Shear	643 lb	1 1/4"	1770 lb	0.363 (36%)	D+L	L
LL Defl inch	0.250 (L/889)	9'4 9/16"	0.464 (L/480)	0.540 (54%)	L	L
TL Defl inch	0.325 (L/684)	9'4 9/16"	0.618 (L/360)	0.527 (53%)	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 Bottom flange must be laterally braced at a maximum of 0 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		1-4-0	12 PSF	40 PSF	0 PSF	0 PSF	0 PSF	

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise

2. Joist not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. Joist flanges must not be cut or drilled

2. Refer to latest copy of the Joist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-ply fastening details and handling/erection details

3. Damaged Joists must not be used

4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches

7. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

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APA: PR-L259, ICC-ES: ESR-1251

PACIFIC LUMBER & TRUSS CO.

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& TRUSS COMPANY

This design is valid until 7/22/2025