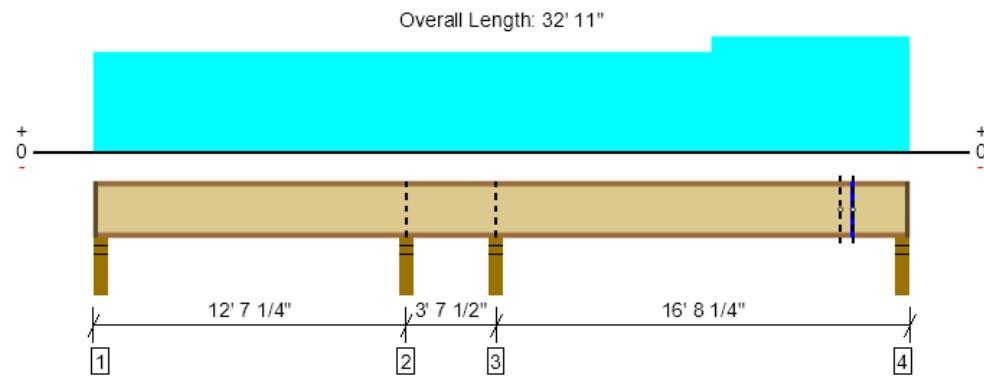


Level, Floor: Joist
1 piece(s) 14" TJI® 210 @ 19.2" OC



Drawing is Conceptual. All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal (typ.).

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	1684 @ 16' 2 3/4"	2145 (3.50")	Passed (79%)	1.00	1.0 D + 1.0 L (Adj Spans)
Shear (lbs)	803 @ 16' 4 1/2"	1945	Passed (41%)	1.00	1.0 D + 1.0 L (Adj Spans)
Moment (Ft-lbs)	-2478 @ 16' 2 3/4"	4490	Passed (55%)	1.00	1.0 D + 1.0 L (Adj Spans)
Live Load Defl. (in)	0.132 @ 25' 4"	0.412	Passed (L/999+)	--	1.0 D + 1.0 L (Alt Spans)
Total Load Defl. (in)	0.184 @ 25' 4 3/4"	0.824	Passed (L/999+)	--	1.0 D + 1.0 L (Alt Spans)
TJ-Pro™ Rating	52	40	Passed	--	--

Member Length : 32' 8 3/4"
System : Floor
Member Type : Joist
Building Use : Residential
Building Code : IBC 2018
Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.
- 401 lbs uplift at support located at 12' 7 1/4". Strapping or other restraint may be required.
- A structural analysis of the deck has not been performed.
- Deflection analysis is based on composite action with a single layer of 23/32" Panel (24" Span Rating) that is glued and nailed down.
- Additional considerations for the TJ-Pro™ Rating include: 1/2" Gypsum ceiling.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories	Details
	Total	Available	Required	Dead	Floor Live	Factored		
1 - Stud wall - SPF	3.50"	2.38"	1.75"	105	349	454	1 1/8" Rim Board	A3
2 - Stud wall - SPF	3.50"	3.50"	3.50"	49	882/-450	931/-401	Blocking	B1
3 - Stud wall - SPF	3.50"	3.50"	3.50"	379	1305/-179	1684	Blocking	B1
4 - Stud wall - SPF	3.50"	2.38"	1.75"	201	437	638	1 1/8" Rim Board	A3

- Rim Board is assumed to carry all loads applied directly above it, bypassing the member being designed.
- Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	5' 9" o/c	
Bottom Edge (Lu)	5' 1" o/c	

• TJI joists are only analyzed using Maximum Allowable bracing solutions.

• Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Spacing	Dead (0.90)	Floor Live (1.00)	Comments
1 - Uniform (PSF)	0 to 32' 11"	19.2"	12.0	40.0	Default Load
2 - Uniform (PSF)	24' 11" to 32' 11"	19.2"	8.0	--	Bath Tile

Holes (Size)	Width	Height	Vertical Offset	Location	Shear (lbs)			Comments
					Actual	Allowed	Result	
1 - Circular (Ignore)	1.00"	1.00"	7"	30' 1 1/2"	--	--	Passed (-)	Water Line
2 - Circular (Ignore)	1.00"	1.00"	7"	30' 7 1/2"	--	--	Passed (-)	Water Line

• Hole locations are measured from the outside face of left support (or left cantilever end) to the centerline of the hole.

• Vertical Offset is measured from the top of the member to the centerline of the hole.

ForteWEB Software Operator	Job Notes
Joe Ciferni Professional Builders Supply (984) 789-2994 joe.ciferni@pb-supply.com	FJ1 - Wire Hole



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File Name: 74 Ducks Landing

Location Analysis	Shear (lbs)			Moment (Ft-lbs)			Deflection (in)		Comments
	Actual	Allowed	LDF	Actual	Allowed	LDF	Live Load	Total	
1 - 30' 7 1/2"	-418	1945	1.00	1078	4490	1.00	0.058	0.083	3/4" Wire Hole In Top Flange

Member Notes

FJ1 - Wire Hole

Weyerhaeuser Notes

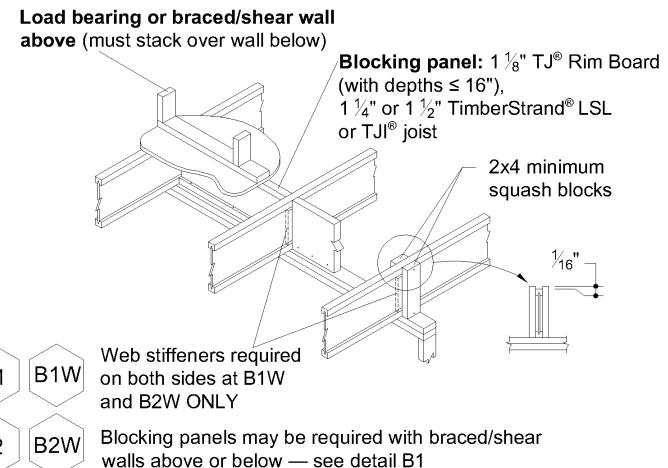
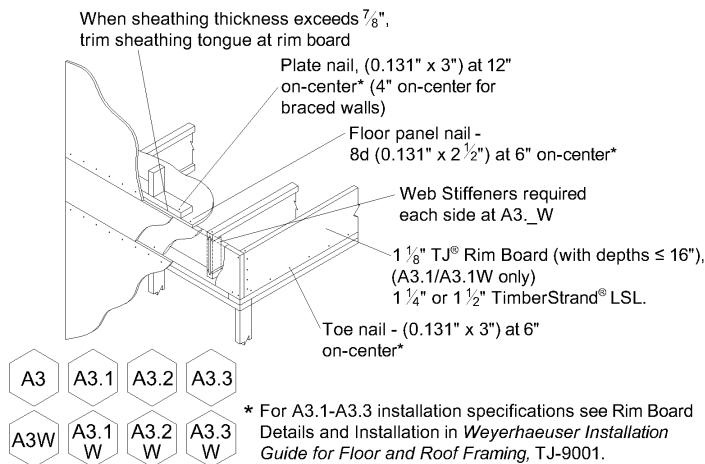
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The product application, input design loads, dimensions and support information have been provided by Joe Ciferni

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