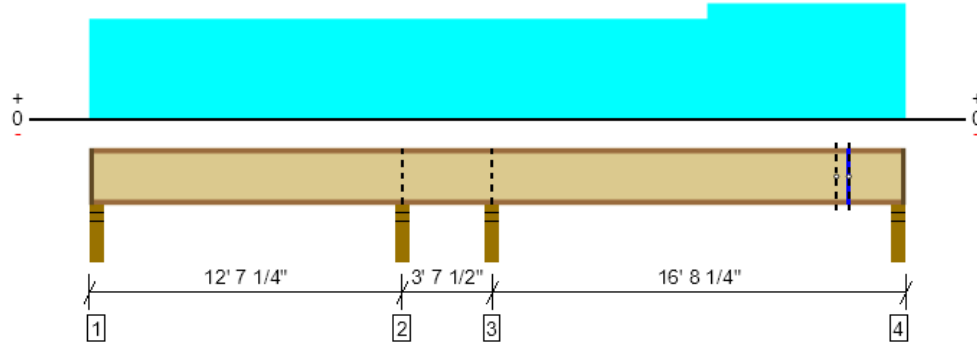


Level, Floor: Joist

1 piece(s) 14" TJI® 210 @ 19.2" OC

Overall Length: 32' 11"



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



11/20/2025 1:28:07 PM UTC  
ForteWEB v3.9, Engine: V8.4.3.94, Data: V8.1.7.3  
File Name: 74 Ducks Landing

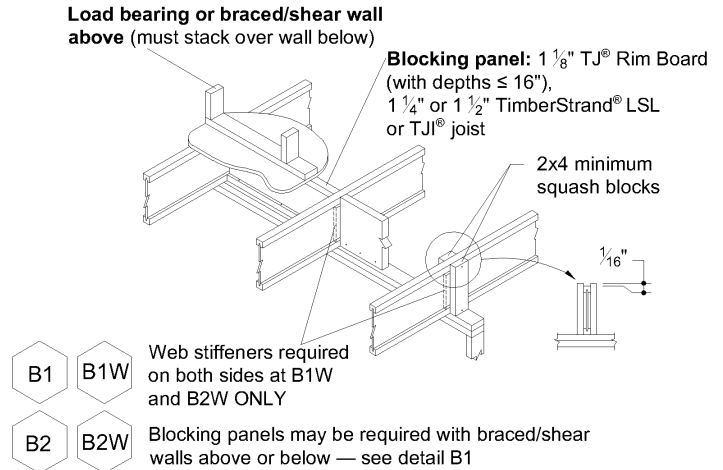
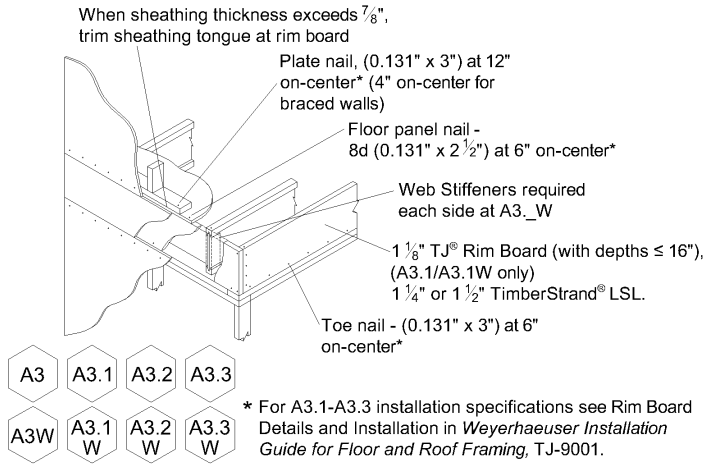
Location Analysis	Shear (lbs)			Moment (Ft-lbs)			Deflection (in)		Comments
	Actual	Allowed	LDF	Actual	Allowed	LDF	Live Load	Total	
1 - 30' 7 1/2"	-418	1945	1.00	1078	4490	1.00	0.058	0.083	3/4" Wire Hole In Top Flange

Member Notes
FJ1 - Wire Hole

Weyerhaeuser Notes
<p>Weyerhaeuser warrants that the sizing of its products will be in accordance with Weyerhaeuser product design criteria and published design values. Weyerhaeuser expressly disclaims any other warranties related to the software. Use of this software is not intended to circumvent the need for a design professional as determined by the authority having jurisdiction. The designer of record, builder or framer is responsible to assure that this calculation is compatible with the overall project. Accessories (Rim Board, Blocking Panels and Squash Blocks) are not designed by this software. Products manufactured at Weyerhaeuser facilities are third-party certified to sustainable forestry standards. Weyerhaeuser Engineered Lumber Products have been evaluated by ICC-ES under evaluation reports ESR-1153 and ESR-1387 and/or tested in accordance with applicable ASTM standards. For current code evaluation reports, Weyerhaeuser product literature and installation details refer to <a href="http://www.weyerhaeuser.com/woodproducts/document-library">www.weyerhaeuser.com/woodproducts/document-library</a>.</p> <p>The product application, input design loads, dimensions and support information have been provided by Joe Ciferni</p>

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





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

