

1st Floor			
Member Name	Results (Max UTIL %)	Current Solution	Comments
FC1: J5 (i964)	Passed (43% R)	1 piece(s) 11 7/8" TJI@ 210 @ 19.1875" OC	

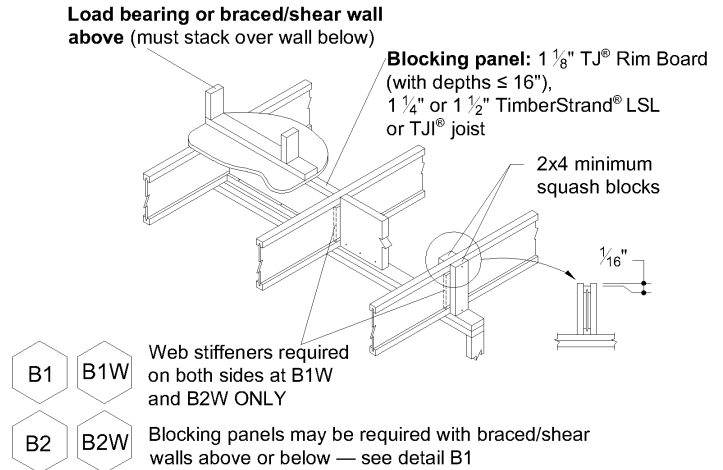
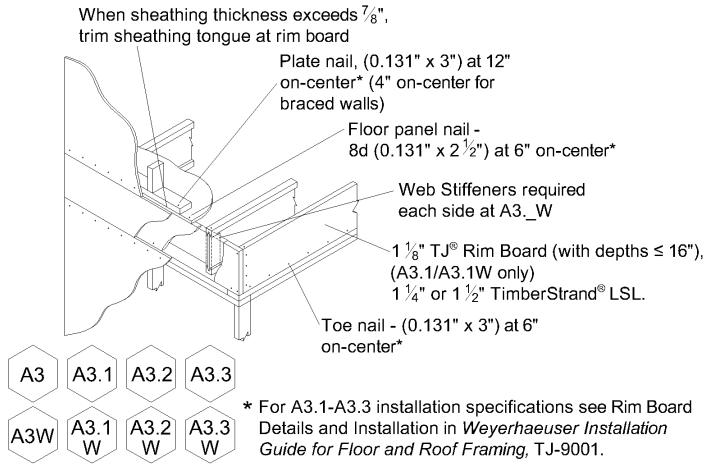
ForteWEB Software Operator	Job Notes
Dylan Vaughn UFPI (706) 367-2781 dylan.vaughn@ufpi.com	



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File Name: DC 125 HOLE

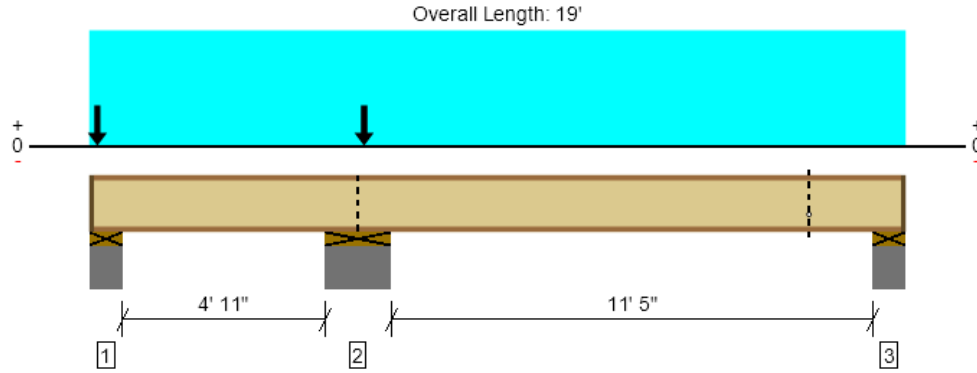


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1st Floor, FC1: J5 (i964)

1 piece(s) 11 7/8" TJI® 210 @ 19.1875" 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)	1106 @ 6' 10"	2565 (5.25")	Passed (43%)	1.00	1.0 D + 1.0 L (All Spans)
Shear (lbs)	517 @ 6' 11"	1821	Passed (28%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	-1008 @ 6' 10"	3795	Passed (27%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.059 @ 13' 15/16"	0.290	Passed (L/999+)	--	1.0 D + 1.0 L (Adj Spans)
Total Load Defl. (in)	0.073 @ 13' 1 3/16"	0.579	Passed (L/999+)	--	1.0 D + 1.0 L (Adj Spans)
TJ-Pro™ Rating	58	40	Passed	--	--

Member Length : 18' 9 3/4"
 System : Floor
 Member Type : Joist
 Building Use : Residential
 Building Code : IBC 2015
 Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.
- A structural analysis of the deck has not been performed.
- Deflection analysis is based on composite action with a single layer of 23/32" Weyerhaeuser Edge™ Panel (24" Span Rating) that is glued and nailed down.
- Additional considerations for the TJ-Pro™ Rating include: None.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories	Details
	Total	Available	Required	Dead	Floor Live	Factored		
1 - Plate on concrete - SPF	8.00"	6.88"	1.75"	191	166/-101	357	1 1/8" Rim Board	A3
2 - Plate on concrete - SPF	16.00"	16.00"	16.00"	314/-137	1155/-115	1354/-137	Blocking	B1
3 - Plate on concrete - SPF	8.00"	6.88"	1.75"	84	347	431	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)	7' 9" o/c	
Bottom Edge (Lu)	7' 5" 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 (PLF)	0 to 19'	N/A	16.0	64.0	Imported Load
2 - Point (lb)	2 1/4"	N/A	145	--	Imported Load
3 - Point (lb)	6' 4 3/4"	N/A	145	--	Imported Load

Holes (Size)	Width	Height	Vertical Offset	Location	Shear (lbs)			Comments
					Actual	Allowed	Result	
1 - Circular (Ignore)	1.00"	1.00"	8 1/4"	16' 9"	--	--	Passed (-)	

- 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.

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The product application, input design loads, dimensions and support information have been provided by Import from Sapphire software

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