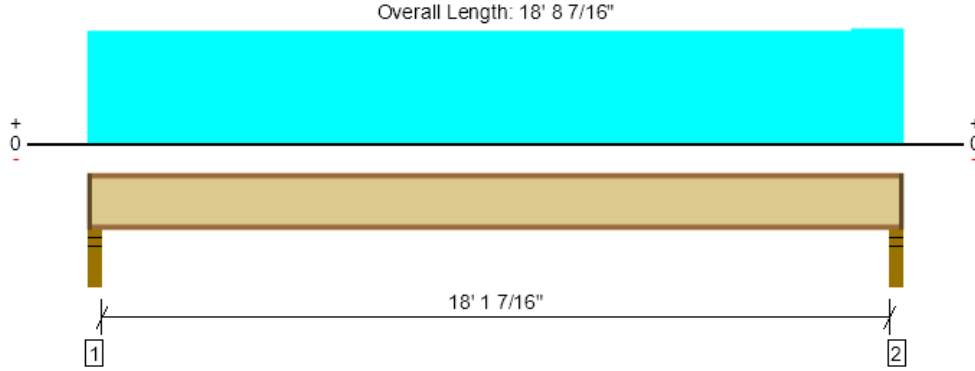


2nd Floor, FC1: J1 (i1367) - Replacement Over Damaged span
1 piece(s) 14" TJI® 110 @ 24" OC



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)	725 @ 18' 5 15/16"	1074 (2.38")	Passed (67%)	1.00	1.0 D + 1.0 L (All Spans)
Shear (lbs)	709 @ 18' 4 15/16"	1860	Passed (38%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	3265 @ 9' 4 1/4"	3740	Passed (87%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.324 @ 9' 4 1/4"	0.457	Passed (L/678)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.432 @ 9' 4 1/4"	0.914	Passed (L/508)	--	1.0 D + 1.0 L (All Spans)
TJ-Pro™ Rating	37	Any	Passed	--	--

Member Length : 18' 6 3/16"
 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: 1/2" Gypsum ceiling.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Factored	
1 - Stud wall - SPF	3.50"	2.38"	1.75"	183	548	730	1 1/8" Rim Board
2 - Stud wall - SPF	3.50"	2.38"	1.75"	183	549	732	1 1/8" Rim Board

• Rim Board is assumed to carry all loads applied directly above it, bypassing the member being designed.

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	3' 4" o/c	
Bottom Edge (Lu)	18' 6" 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 17' 6"	N/A	9.5	28.6	Imported Load
2 - Uniform (PLF)	0 to 18' 8 7/16"	N/A	10.0	30.0	Imported Load
3 - Uniform (PLF)	17' 6" to 18' 8 7/16"	N/A	10.0	29.9	Imported Load

Weyerhaeuser Notes

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The product application, input design loads, dimensions and support information have been provided by Phillip Bryant

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