

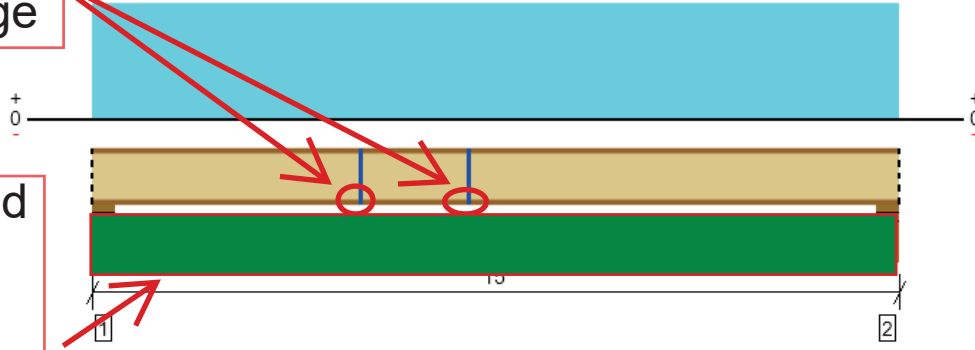
Level, Floor: Joist

1 piece(s) 11 7/8" TJI® 210 @ 12" OC

Overall Length: 15'

1/2" hole
through
bottom flange

Fully supported
by 2x6 wall
below.



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)		1460 (3.50")		1.00	1.0 D + 1.0 L (All Spans)
Shear (lbs)		1655		1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)		3795		1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)		0.356		--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)		0.712		--	1.0 D + 1.0 L (All Spans)
TJ-Pro™ Rating		40		--	--

Member Length : 15'
System : Floor
Member Type : Joist
Building Use : Residential
Building Code : IBC 2021
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.

Vertical Loads	Location	Spacing	Dead (0.90)	Floor Live (1.00)	Comments
1 - Uniform (PSF)	0 to 15'	12"	12.0	40.0	Floor Load
2 - Uniform (PSF)	0 to 15'	12"	100.0	--	Non-Load bearing stair wall above

Location Analysis	Shear (lbs)			Moment (Ft-lbs)			Deflection (in)		Comments
	Actual	Allowed	LDF	Actual	Allowed	LDF	Live Load	Total	
1 - 5'									1/2" drilled hole bottom flange for wire.
2 - 7'									1/2" drilled hole bottom flange for wire.

Weyerhaeuser Notes

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 www.weyerhaeuser.com/woodproducts/document-library.

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

ForteWEB Software Operator	Job Notes
Jason O'Rear Weyerhaeuser (888) 453-8358 jason.orear@weyerhaeuser.com	TC 161274 Durham Residence



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NO REPAIR REQUIRED

- JOIST RETAINS SUFFICIENT CAPACITY TO SUPPORT LOADS SHOWN

Member with damage as shown (and repaired if required) has adequate structural capacity for the design condition indicated. I have not reviewed the project plans or field conditions. The proper authority is to review the damage evaluation inputs and confirm they are consistent with the intent of the overall building design and field conditions. This damage evaluation is based on the information provided to Weyerhaeuser; if not consistent with the building design and field conditions, it should be rejected or returned to us to be corrected.

The professional engineer's seal on this calculation verifies that the analysis presented conforms to accepted engineering practices. Neither the undersigned engineer nor Weyerhaeuser NR Company is acting as the engineer of record for the referenced project.

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