FORTE®

MEMBER REPORT *Level, Floor: Joist*

1 piece(s) 16" TJI® 560 @ 16" OC

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 11/21/16

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

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	778 @ 0 4 8	1725 (3.50")	Passed (45%)	1.00	1.0 D + 1.0 L (All Spans)
Shear (lbs)	758 @ 0 5 8	2710	Passed (28%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	5198 @ 14 0 0	12925	Passed (40%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.396 @ 14 0 0	0.681	Passed (L/826)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.554 @ 14 0 0	1.362	Passed (L/590)	--	1.0 D + 1.0 L (All Spans)
TJ-Pro™ Rating	37	35	Passed	--	--

System : Floor
Member Type : Joist
Building Use : Residential
Building Code : IBC 2009
Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 7 11 9 o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
- 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: 5/8" Gypsum ceiling, 1x4 Flat strapping.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Stud wall - SPF	5.50"	4.25"	1.75"	224	560	784	1 1/4" Rim Board
2 - Stud wall - SPF	5.50"	4.25"	1.75"	224	560	784	1 1/4" Rim Board

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

Loads	Location (Side)	Spacing	Dead (0.90)	Floor Live (1.00)	Comments
1 - Uniform (PSF)	0 0 0 to 28 0 0	16"	12.0	30.0	Residential - Sleeping Areas

Member Notes

Envy Construction
Cunningham Job
Portland,Me

Weyerhaeuser Notes

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The product application, input design loads, dimensions and support information have been provided by Forte Software Operator

SUSTAINABLE FORESTRY INITIATIVE

Forte Software Operator	Job Notes
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