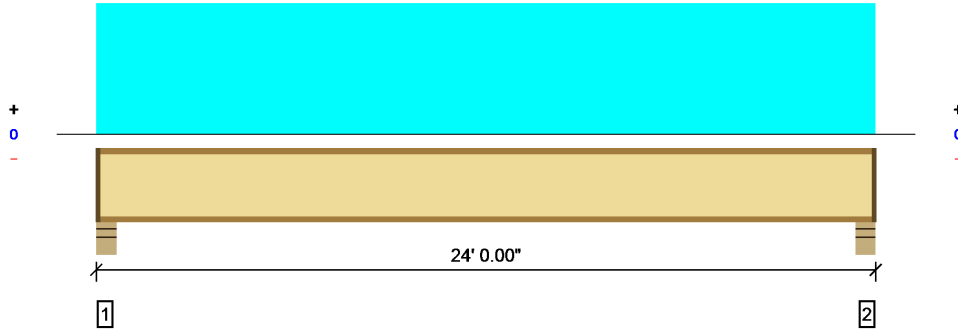




01: Level			
Member Name	Results	Current Solution	Comments
Floor: Joist	Passed	1 Piece(s) 16" TJI® 230 @ 16" OC	
Wall: Header	Passed	3 Piece(s) 1 3/4" x 18" 2.0E Microllam® LVL	

Forte Software Operator	Job Notes
Guy Poisson Hammond Lumber (207) 495-3303 gpoisson@hammondlumber.com	Envy Construction 58 Sunset Lane Portland, Me

Overall Length: 24' 0.00"



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

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	825 @ 4.50"	1485 (3.50")	Passed (56%)	1.00	1.0 D + 1.0 L (All Spans)
Shear (lbs)	800 @ 5.50"	2190	Passed (37%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	4685 @ 12' 0.00"	5710	Passed (82%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.473 @ 12' 0.00"	0.581	Passed (L/590)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.615 @ 12' 0.00"	1.163	Passed (L/454)	--	1.0 D + 1.0 L (All Spans)
TJ-Pro™ Rating	39	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 4' 0.50" 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" Panel (24" Span Rating) that is glued and nailed down.
- Additional considerations for the TJ-Pro™ Rating include: 1/2" Gypsum ceiling.

Supports	Bearing			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Stud wall - HF	5.50"	4.25"	1.75"	192	640	832	1 1/4" Rim Board
2 - Stud wall - HF	5.50"	4.25"	1.75"	192	640	832	1 1/4" Rim Board

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

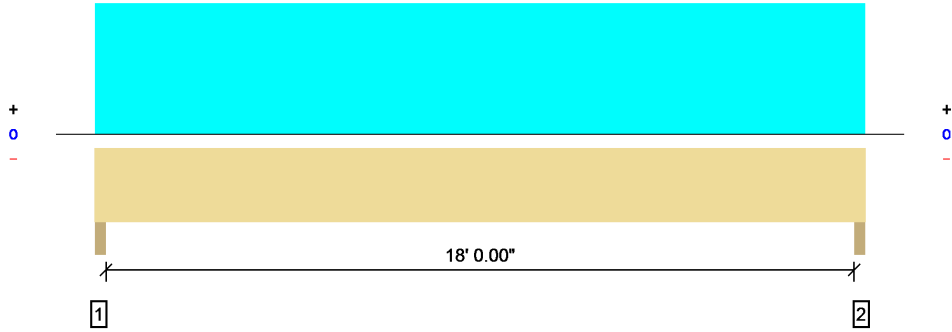
Loads	Location (Side)	Spacing	Dead (0.90)	Floor Live (1.00)	Comments
1 - Uniform (PSF)	0 to 24' 0.00"	16"	12.0	40.0	Residential - Living Areas

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Forte Software Operator	Job Notes
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Overall Length: 18' 6.00"



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Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	10428 @ 1.50"	11419 (3.00")	Passed (91%)	--	1.0 D + 0.75 L + 0.75 S (All Spans)
Shear (lbs)	8455 @ 1' 9.00"	20648	Passed (41%)	1.15	1.0 D + 0.75 L + 0.75 S (All Spans)
Moment (Ft-lbs)	46935 @ 9' 3.00"	66849	Passed (70%)	1.15	1.0 D + 0.75 L + 0.75 S (All Spans)
Live Load Defl. (in)	0.419 @ 9' 3.00"	0.608	Passed (L/523)	--	1.0 D + 0.75 L + 0.75 S (All Spans)
Total Load Defl. (in)	0.609 @ 9' 3.00"	0.913	Passed (L/360)	--	1.0 D + 0.75 L + 0.75 S (All Spans)

System : Wall  
 Member Type : Header  
 Building Use : Residential  
 Building Code : IBC 2009  
 Design Methodology : ASD

- Deflection criteria: LL (L/360) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 8' 3.46" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.

Supports	Bearing			Loads to Supports (lbs)				Accessories
	Total	Available	Required	Dead	Floor Live	Snow	Total	
1 - Trimmer - HF	3.00"	3.00"	2.74"	3252	4440	5128	12820	None
2 - Trimmer - HF	3.00"	3.00"	2.74"	3252	4440	5128	12820	None

Loads	Location (Side)	Tributary Width	Dead (0.90)	Floor Live (1.00)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 to 18' 6.00"	N/A	27.6			
1 - Uniform (PSF)	0 to 18' 6.00"	12' 0.00"	12.0	40.0	-	Residential - Living Areas
2 - Uniform (PSF)	0 to 18' 6.00"	12' 0.00"	15.0	-	46.2	Roof Load - 60# GSL

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