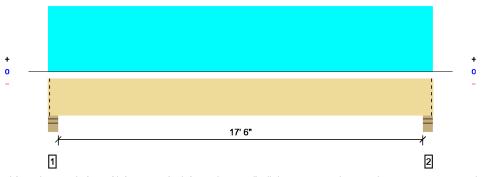


01: ROOF BEAM								
Member Name	Current Solution	Comments						
Roof: Beam	Passed	1 Piece(s) 3 1/2" x 15" 24F-V4 DF Glulam						
Roof: Drop Beam no.2	Passed	ssed 1 Piece(s) 4 x 8 Douglas Fir-Larch No. 2						
Roof: Beam no.3	Passed	1 Piece(s) 4 x 10 Douglas Fir-Larch No. 2						
02: FLOOR JOISTS								
Member Name	Results	Current Solution	Comments					
Floor: Joist	Passed	1 Piece(s) 9 1/2" TJI® 110 @ 16" OC						

Forte Software Operator	Job Notes
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1 piece(s) 3 1/2" x 15" 24F-V4 DF Glulam

Overall Length: 18' 5"



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)	4952 @ 4"	8181 (5.50")	Passed (61%)		1.0 D + 1.0 S (All Spans)
Shear (lbs)	4033 @ 1' 8 1/2"	10666	Passed (38%)	1.15	1.0 D + 1.0 S (All Spans)
Pos Moment (Ft-lbs)	21179 @ 9' 2 1/2"	30188	Passed (70%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.378 @ 9' 2 1/2"	0.592	Passed (L/563)		1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.678 @ 9' 2 1/2"	0.887	Passed (L/314)		1.0 D + 1.0 S (All Spans)

System : Roof

Member Type : Drop Beam

Building Use: Residential Building Code: IBC 2015 Design Methodology: ASD Member Pitch: 0/12

- Deflection criteria: LL (L/360) and TL (L/240).
- Top Edge Bracing (Lu): Top compression edge must be braced at 18' 5" o/c unless detailed otherwise.
- Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 18' 5" o/c unless detailed otherwise.
- Critical positive moment adjusted by a volume factor of 1.00 that was calculated using length L = 17' 9".
- The effects of positive or negative camber have not been accounted for when calculating deflection.
- The specified glulam is assumed to have its strong laminations at the bottom of the beam. Install with proper side up as indicated by the manufacturer.
- · Applicable calculations are based on NDS.

		Bearing			Loads to S			
Supports	Total	Available	Required	Dead	Roof Live	Snow	Total	Accessories
1 - Stud wall - SPF	5.50"	5.50"	3.33"	2189	2763	2763	7715	Blocking
2 - Stud wall - SPF	5.50"	5.50"	3.33"	2189	2763	2763	7715	Blocking

• Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Loads	Location (Side)	Tributary Width	Dead (0.90)	Roof Live (non-snow: 1.25)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 to 18' 5"	N/A	12.8			
1 - Uniform (PSF)	0 to 18' 5" (Front)	15'	15.0	20.0	20.0	Roof

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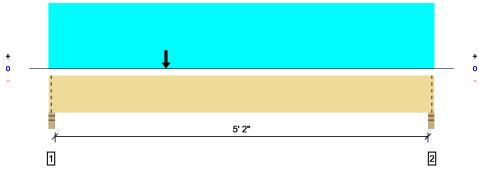
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1 piece(s) 4 x 8 Douglas Fir-Larch No. 2

Overall Length: 5' 9"



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)	1758 @ 2"	5206 (3.50")	Passed (34%)		1.0 D + 1.0 S (All Spans)
Shear (lbs)	1256 @ 10 3/4"	2741	Passed (46%)	0.90	1.0 D (All Spans)
Moment (Ft-lbs)	1977 @ 1' 9"	2691	Passed (73%)	0.90	1.0 D (All Spans)
Live Load Defl. (in)	0.015 @ 2' 10 3/8"	0.181	Passed (L/999+)		1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.064 @ 2' 8 13/16"	0.271	Passed (L/999+)		1.0 D + 1.0 S (All Spans)

System: Roof
Member Type: Drop Beam
Building Use: Residential
Building Code: IBC 2015

Design Methodology: ASD Member Pitch: 0/12

- Deflection criteria: LL (L/360) and TL (L/240).
- Top Edge Bracing (Lu): Top compression edge must be braced at 5' 9" o/c unless detailed otherwise.
- Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 5' 9" o/c unless detailed otherwise.
- Applicable calculations are based on NDS.

	Bearing			Loads to Supports (lbs)				
Supports	Total	Available	Required	Dead	Roof Live	Snow	Total	Accessories
1 - Stud wall - SPF	3.50"	3.50"	1.50"	1356	403	403	2162	Blocking
2 - Stud wall - SPF	3.50"	3.50"	1.50"	748	403	403	155 4	Blocking

• Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Loads	Location (Side)	Tributary Width	Dead (0.90)	Roof Live (non-snow: 1.25)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 to 5' 9"	N/A	6.4			
1 - Uniform (PSF)	0 to 5' 9" (Front)	7'	15.0	20.0	20.0	Roof
2 - Point (lb)	1' 9" (Front)	N/A	1463	-	-	

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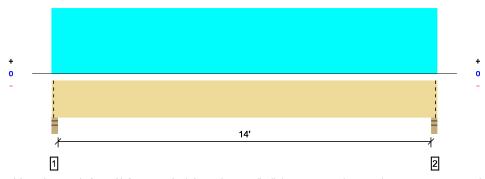
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1 piece(s) 4 x 10 Douglas Fir-Larch No. 2

Overall Length: 14' 7"



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)	953 @ 2"	5206 (3.50")	Passed (18%)		1.0 D + 1.0 S (All Spans)
Shear (lbs)	814 @ 1' 3/4"	4468	Passed (18%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	3318 @ 7' 3 1/2"	5166	Passed (64%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.176 @ 7' 3 1/2"	0.475	Passed (L/972)		1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.328 @ 7' 3 1/2"	0.712	Passed (L/521)		1.0 D + 1.0 S (All Spans)

System : Roof

Member Type : Drop Beam

Building Use : Residential

Building Code : Residential
Building Code : IBC 2015
Design Methodology : ASD
Member Pitch: 0/12

- Deflection criteria: LL (L/360) and TL (L/240).
- Top Edge Bracing (Lu): Top compression edge must be braced at 14' 7" o/c unless detailed otherwise.
- Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 14' 7" o/c unless detailed otherwise.
- · Applicable calculations are based on NDS.

		Bearing			Loads to S			
Supports	Total	Available	Required	Dead	Roof Live	Snow	Total	Accessories
1 - Stud wall - SPF	3.50"	3.50"	1.50"	443	510	510	1463	Blocking
2 - Stud wall - SPF	3.50"	3.50"	1.50"	443	510	510	1463	Blocking

• Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

Loads	Location (Side)	Tributary Width	Dead (0.90)	Roof Live (non-snow: 1.25)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 to 14' 7"	N/A	8.2			
1 - Uniform (PSF)	0 to 14' 7" (Front)	3' 6"	15.0	20.0	20.0	Roof

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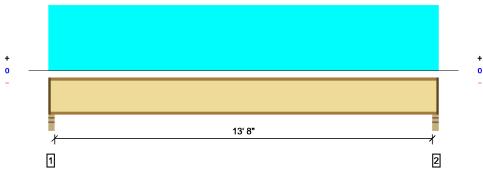
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1 piece(s) 9 1/2" TJI® 110 @ 16" OC

Overall Length: 14' 3"



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)	487 @ 2 1/2"	1041 (2.25")	Passed (47%)	1.00	1.0 D + 1.0 L (All Spans)
Shear (lbs)	474 @ 3 1/2"	1220	Passed (39%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	1658 @ 7' 1 1/2"	2500	Passed (66%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.247 @ 7' 1 1/2"	0.346	Passed (L/672)		1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.321 @ 7' 1 1/2"	0.692	Passed (L/517)		1.0 D + 1.0 L (All Spans)
TJ-Pro™ Rating	41	40	Passed		

System : Floor
Member Type : Joist
Building Use : Residential
Building Code : IBC 2015
Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Top Edge Bracing (Lu): Top compression edge must be braced at 3' 10" o/c unless detailed otherwise.
- Bottom Edge Bracing (Lu): Bottom compression edge must be braced at 14' 1" o/c unless detailed otherwise.
- · 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

		Bearing		Loads to Supports (lbs)			
Supports	Total	Available	Required	Dead	Floor Live	Total	Accessories
1 - Stud wall - SPF	3.50"	2.25"	1.75"	114	380	494	1 1/4" Rim Board
2 - Stud wall - SPF	3.50"	2.25"	1.75"	114	380	494	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 14' 3"	16"	12.0	40.0	Residential - Living

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