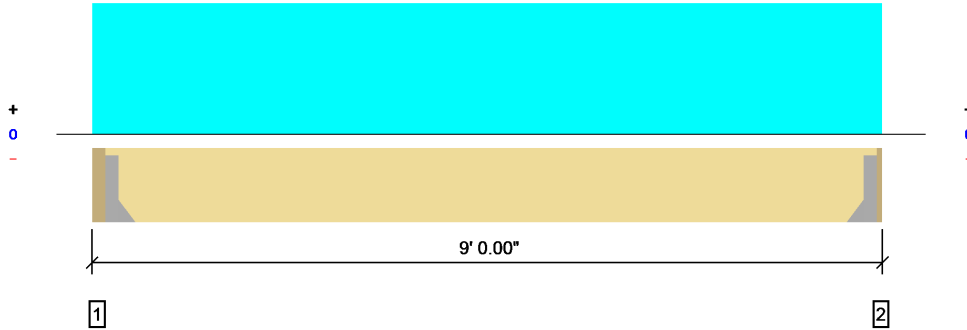


01: Level			
Member Name	Results	Current Solution	Comments
Floor: screen porch Joist	Passed	1 Piece(s) 2 x 8 Southern Pine No. 2 @ 16" OC	
Roof: screen porch rafter	Passed	1 Piece(s) 2 x 10 Spruce-Pine-Fir No. 1 / No. 2 @ 16" OC	
Roof: Hip/Valley Beam	Passed	1 Piece(s) 1 3/4" x 11 7/8" 2.0E Microllam® LVL	
Roof: side rafter support Beam	Passed	2 Piece(s) 2 x 8 Spruce-Pine-Fir No. 1 / No. 2	
Roof: front rafter Beam	Passed	2 Piece(s) 2 x 8 Spruce-Pine-Fir No. 1 / No. 2	
Floor: screen porch Beam	Passed	3 Piece(s) 2 x 8 Spruce-Pine-Fir No. 1 / No. 2	
Floor:screen porch side Beam	Passed	3 Piece(s) 2 x 8 Spruce-Pine-Fir No. 1 / No. 2	
Floor: deck Beam	Passed	3 Piece(s) 2 x 10 Southern Pine No. 2	
Floor: Deck Joist	Passed	1 Piece(s) 2 x 10 Southern Pine No. 2 @ 16" OC	

Forte Software Operator	Job Notes
Guy Poisson Hammond Lumber (207) 495-3303 gpoisson@hammondlumber.com	Paula Silsby Portland, Me

Overall Length: 9' 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)	343 @ 3.50"	1271 (1.50")	Passed (27%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	295 @ 10.75"	1269	Passed (23%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	737 @ 4' 7.00"	1165	Passed (63%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.098 @ 4' 7.00"	0.215	Passed (L/999+)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.147 @ 4' 7.00"	0.429	Passed (L/703)	--	1.0 D + 1.0 L (All Spans)
TJ-Pro™ Rating	N/A	N/A	--	--	--

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

- Deflection criteria: LL (L/480) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 8' 7.00" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
- A 15% increase in the moment capacity has been added to account for repetitive member usage.
- Applicable calculations are based on NDS.
- No composite action between deck and joist was considered in analysis.

Supports	Bearing			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Hanger on 7 1/4" HF beam	3.50"	Hanger ¹	1.50"	122	244	366	See note ¹
2 - Hanger on 7 1/4" HF beam	1.50"	Hanger ¹	1.50"	118	236	354	See note ¹

- At hanger supports, the Total Bearing dimension is equal to the width of the material that is supporting the hanger
- ¹ See Connector grid below for additional information and/or requirements.

Connector: Simpson Strong-Tie Connectors						
Support	Model	Seat Length	Top Nails	Face Nails	Member Nails	Accessories
1 - Face Mount Hanger	LU26	1.50"	N/A	6-10d common	4-10d x 1-1/2	
2 - Face Mount Hanger	Connector not found	N/A	N/A	N/A	N/A	

Loads	Location	Spacing	Dead (0.90)	Floor Live (1.00)	Comments
1 - Uniform (PSF)	0 to 9' 0.00"	16"	20.0	40.0	Residential - Living Areas

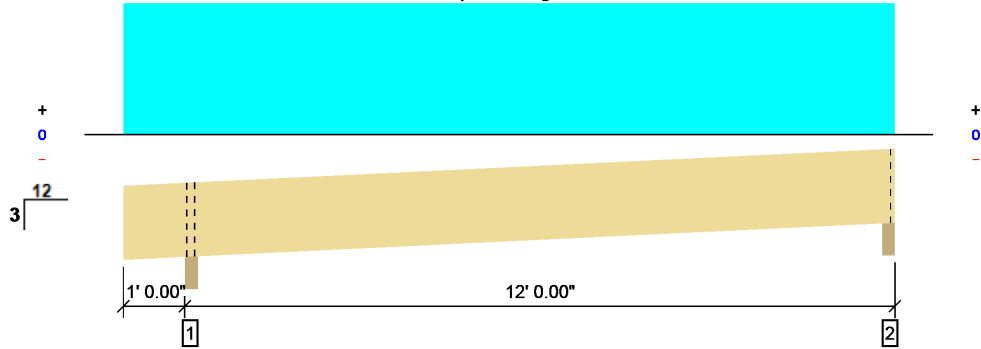
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The product application, input design loads, dimensions and support information have been provided by drawings



Forte Software Operator	Job Notes
Guy Poisson Hammond Lumber (207) 495-3303 gpoisson@hammondlumber.com	Paula Silsby Portland, Me

1 piece(s) 2 x 10 Spruce-Pine-Fir No. 1 / No. 2 @ 16" OC
Overall Sloped Length: 13' 7.11"


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)	707 @ 1' 1.75"	2192 (3.50")	Passed (32%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	502 @ 2' 0.47"	1436	Passed (35%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	1686 @ 7' 0.03"	2269	Passed (74%)	1.15	1.0 D + 1.0 S (Alt Spans)
Live Load Defl. (in)	0.251 @ 6' 11.73"	0.600	Passed (L/574)	--	1.0 D + 1.0 S (Alt Spans)
Total Load Defl. (in)	0.315 @ 6' 11.75"	0.800	Passed (L/457)	--	1.0 D + 1.0 S (Alt Spans)

 System : Roof
 Member Type : Joist
 Building Use : Residential
 Building Code : IBC
 Design Methodology : ASD
 Member Pitch: 3/12

- Deflection criteria: LL (L/240) and TL (L/180).
- Overhang deflection criteria: LL (2L/240) and TL (2L/180).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 5' 7.34" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
- A 15% increase in the moment capacity has been added to account for repetitive member usage.
- Applicable calculations are based on NDS.

Supports	Bearing			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Snow	Total	
1 - Beveled Plate - HF	3.50"	3.50"	1.50"	145	562	707	Blocking
2 - Beveled Plate - HF	3.50"	3.50"	1.50"	123	480	603	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	Spacing	Dead (0.90)	Snow (1.15)	Comments
1 - Uniform (PSF)	0 to 13' 0.00"	16"	15.0	60.0	Local Snow

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

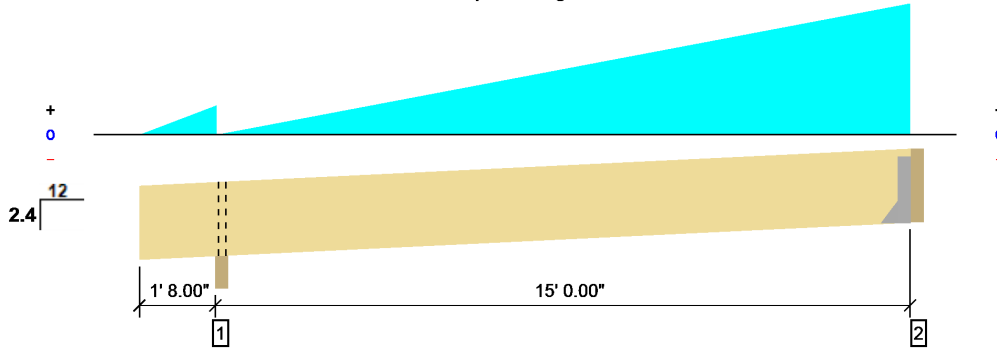


Forte Software Operator	Job Notes
Guy Poisson Hammond Lumber (207) 495-3303 gpoisson@hammondlumber.com	Paula Silsby Portland, Me

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1 piece(s) 1 3/4" x 11 7/8" 2.0E Microllam® LVL

Overall Sloped Length: 17' 5.91"



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)	2743 @ 16' 8.00"	2743 (2.09")	Passed (100%)	--	1.0 D + 1.0 S (Alt Spans)
Shear (lbs)	2227 @ 15' 8.36"	4541	Passed (49%)	1.15	1.0 D + 1.0 S (Alt Spans)
Moment (Ft-lbs)	7892 @ 10' 4.32"	10263	Passed (77%)	1.15	1.0 D + 1.0 S (Alt Spans)
Live Load Defl. (in)	0.542 @ 9' 6.15"	0.757	Passed (L/335)	--	1.0 D + 1.0 S (Alt Spans)
Total Load Defl. (in)	0.695 @ 9' 6.10"	1.010	Passed (L/262)	--	1.0 D + 1.0 S (Alt Spans)

 System : Roof
 Member Type : Flush Beam
 Building Use : Residential
 Building Code : IBC
 Design Methodology : ASD
 Member Pitch : 2.4/12

- Deflection criteria: LL (L/240) and TL (L/180).
- Overhang deflection criteria: LL (2L/240) and TL (2L/180).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 4' 10.56" 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	Snow	Total	
1 - Beveled Plate - SPF	3.50"	3.50"	2.02"	357	1174	1531	Blocking
2 - Hanger on 11 7/8" SPF beam	3.50"	Hanger ¹	2.09"	595	2148	2743	See note ¹

- Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.
- At hanger supports, the Total Bearing dimension is equal to the width of the material that is supporting the hanger
- ¹ See Connector grid below for additional information and/or requirements.

Connector: Simpson Strong-Tie Connectors

Support	Model	Seat Length	Top Nails	Face Nails	Member Nails	Accessories
2 - Face Mount Hanger	HU11X D11	2.50"	N/A	22-16d common	6-10d x 1-1/2	

Loads	Location	Tributary Width	Dead (0.90)	Snow (1.15)	Comments
1 - Tapered (PLF)	0 to 1' 8.00"	N/A	0.0 to 24.5	0.0 to 96.0	Generated from Roof Geometry
2 - Tapered (PLF)	1' 8.00" to 16' 8.00"	N/A	0.0 to 109.0	0.0 to 432.0	Generated from Roof Geometry

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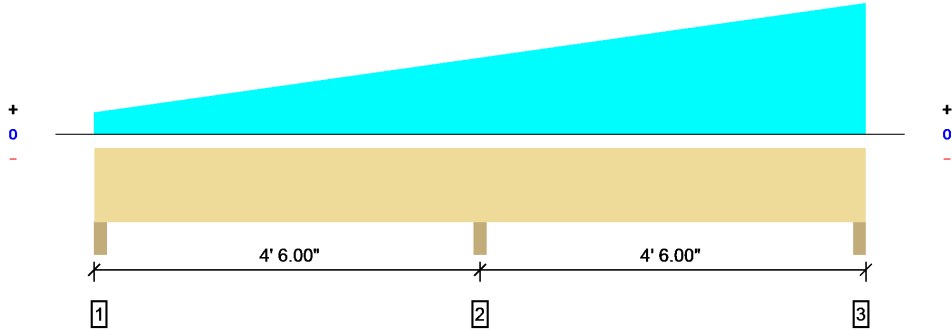
The product application, input design loads, dimensions and support information have been provided by drawings



Forte Software Operator	Job Notes
Guy Poisson Hammond Lumber (207) 495-3303 gpoisson@hammondlumber.com	Paula Silsby Portland, Me

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Overall Length: 9' 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)	1452 @ 4' 6.00"	4463 (3.50")	Passed (33%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	644 @ 5' 3.00"	2251	Passed (29%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	-629 @ 4' 6.00"	2645	Passed (24%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.011 @ 6' 9.58"	0.217	Passed (L/999+)	--	1.0 D + 1.0 S (Alt Spans)
Total Load Defl. (in)	0.013 @ 6' 9.69"	0.289	Passed (L/999+)	--	1.0 D + 1.0 S (Alt Spans)

System : Roof
 Member Type : Flush Beam
 Building Use : Residential
 Building Code : IBC
 Design Methodology : ASD
 Member Pitch: 0/12

- Deflection criteria: LL (L/240) and TL (L/180).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 9' 0.00" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
- Applicable calculations are based on NDS.

Supports	Bearing			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Snow	Total	
1 - Column - HF	3.50"	3.50"	1.50"	46	181	227	None
2 - Column - SPF	3.50"	3.50"	1.50"	314	1138	1452	None
3 - Column - HF	3.50"	3.50"	1.50"	162	629	791	None

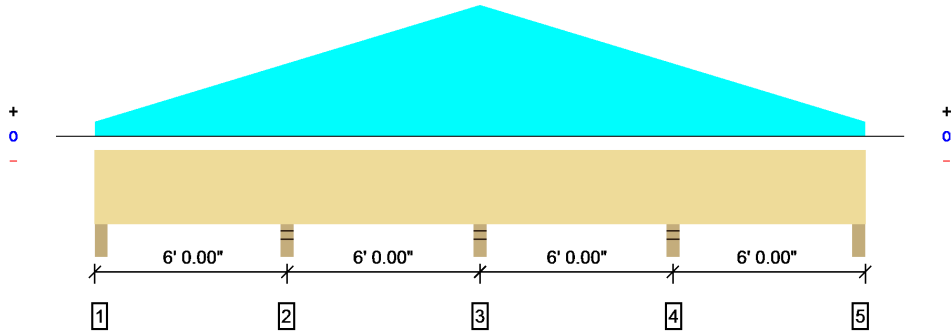
Loads	Location	Tributary Width	Dead (0.90)	Snow (1.15)	Comments
1 - Tapered (PSF)	0 to 9' 0.00"	1' 0.00" to 6' 0.00"	15.0	60.0	Local Snow

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Forte Software Operator	Job Notes
Guy Poisson Hammond Lumber (207) 495-3303 gpoisson@hammondlumber.com	Paula Silsby 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)	3788 @ 12' 0.00"	4463 (3.50")	Passed (85%)	--	1.0 D + 1.0 S (Adj Spans)
Shear (lbs)	1398 @ 12' 9.00"	2251	Passed (62%)	1.15	1.0 D + 1.0 S (Adj Spans)
Moment (Ft-lbs)	-1927 @ 12' 0.00"	2645	Passed (73%)	1.15	1.0 D + 1.0 S (Adj Spans)
Live Load Defl. (in)	0.035 @ 9' 0.16"	0.300	Passed (L/999+)	--	1.0 D + 1.0 S (Alt Spans)
Total Load Defl. (in)	0.041 @ 8' 11.98"	0.400	Passed (L/999+)	--	1.0 D + 1.0 S (Alt Spans)

System : Roof
 Member Type : Flush Beam
 Building Use : Residential
 Building Code : IBC
 Design Methodology : ASD
 Member Pitch: 0/12

- Deflection criteria: LL (L/240) and TL (L/180).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 13' 8.23" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
- Applicable calculations are based on NDS.

Supports	Bearing			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Snow	Total	
1 - Column - HF	3.50"	3.50"	1.50"	80	329	409	None
2 - Stud wall - SPF	3.50"	3.50"	1.95"	507	1984	2491	None
3 - Stud wall - SPF	3.50"	3.50"	2.97"	760	3029	3789	None
4 - Stud wall - SPF	3.50"	3.50"	1.95"	507	1984	2491	None
5 - Column - HF	3.50"	3.50"	1.50"	80	329	409	None

Loads	Location	Tributary Width	Dead (0.90)	Snow (1.15)	Comments
1 - Tapered (PSF)	0 to 12' 0.00"	1' 0.00" to 9' 0.00"	15.0	60.0	Portland Snow
2 - Tapered (PSF)	12' 0.00" to 24' 0.00"	9' 0.00" to 1' 0.00"	15.0	60.0	Portland snow

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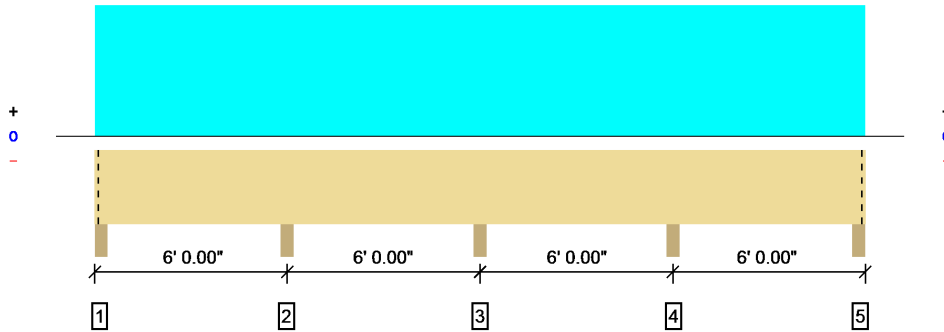
The product application, input design loads, dimensions and support information have been provided by drawings



Forte Software Operator	Job Notes
Guy Poisson Hammond Lumber (207) 495-3303 gpoisson@hammondlumber.com	Paula Silsby Portland, Me

3 piece(s) 2 x 8 Spruce-Pine-Fir No. 1 / No. 2

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)	3380 @ 6' 0.00"	6694 (3.50")	Passed (50%)	--	1.0 D + 1.0 L (Adj Spans)
Shear (lbs)	1365 @ 5' 3.00"	2936	Passed (46%)	1.00	1.0 D + 1.0 L (Adj Spans)
Moment (Ft-lbs)	-1941 @ 6' 0.00"	3449	Passed (56%)	1.00	1.0 D + 1.0 L (Adj Spans)
Live Load Defl. (in)	0.035 @ 2' 11.41"	0.146	Passed (L/999+)	--	1.0 D + 1.0 L (Alt Spans)
Total Load Defl. (in)	0.043 @ 21' 1.13"	0.292	Passed (L/999+)	--	1.0 D + 1.0 L (Alt Spans)

 System : Floor
 Member Type : Flush Beam
 Building Use : Residential
 Building Code : IBC
 Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 24' 0.00" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
- Applicable calculations are based on NDS.

Supports	Bearing			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Floor Live	Total	
1 - Column - HF	3.50"	3.50"	1.50"	285	1001/-120	1286/-120	Blocking
2 - Column - SPF	3.50"	3.50"	1.77"	782	2597	3379	None
3 - Column - SPF	3.50"	3.50"	1.63"	656	2465	3121	None
4 - Column - SPF	3.50"	3.50"	1.77"	782	2597	3379	None
5 - Column - HF	3.50"	3.50"	1.50"	285	1001/-120	1286/-120	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	Tributary Width	Dead (0.90)	Floor Live (1.00)	Comments
1 - Uniform (PSF)	0 to 24' 0.00"	9' 0.00"	12.0	40.0	Residential - Living Areas

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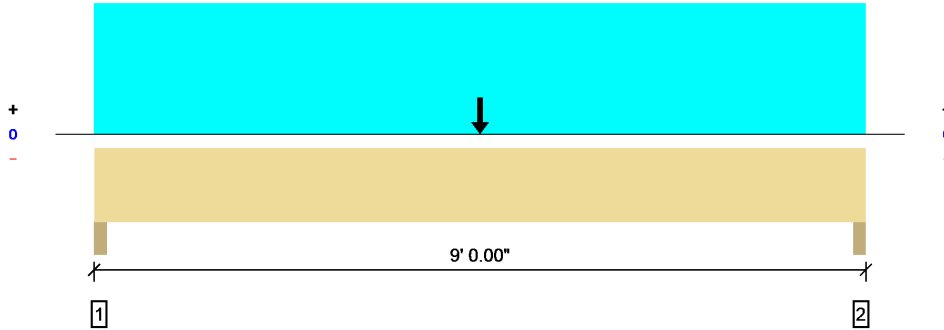
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Forte Software Operator	Job Notes
Guy Poisson Hammond Lumber (207) 495-3303 gpoisson@hammondlumber.com	Paula Silsby Portland, Me

Overall Length: 9' 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)	817 @ 2.00"	6694 (3.50")	Passed (12%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	799 @ 10.75"	3377	Passed (24%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	3336 @ 4' 6.00"	3967	Passed (84%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.133 @ 4' 6.00"	0.217	Passed (L/780)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.183 @ 4' 6.00"	0.433	Passed (L/569)	--	1.0 D + 1.0 S (All Spans)

System : Floor
 Member Type : Flush Beam
 Building Use : Residential
 Building Code : IBC
 Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 9' 0.00" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
- Applicable calculations are based on NDS.

Supports	Bearing			Loads to Supports (lbs)				Accessories
	Total	Available	Required	Dead	Floor Live	Snow	Total	
1 - Column - HF	3.50"	3.50"	1.50"	248	180	569	997	None
2 - Column - HF	3.50"	3.50"	1.50"	248	180	569	997	None

Loads	Location	Tributary Width	Dead (0.90)	Floor Live (1.00)	Snow (1.15)	Comments
1 - Uniform (PSF)	0 to 9' 0.00"	1' 0.00"	12.0	40.0	-	Residential - Living Areas
2 - Point (lb)	4' 6.00"	N/A	314	-	1138	Linked from: Roof: side rafter support Beam, Support 2

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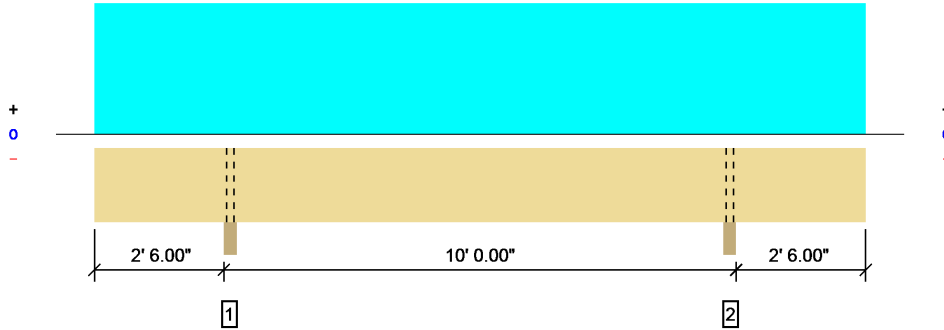
The product application, input design loads, dimensions and support information have been provided by drawings



Forte Software Operator	Job Notes
Guy Poisson Hammond Lumber (207) 495-3303 gpoisson@hammondlumber.com	Paula Silsby Portland, Me

3 piece(s) 2 x 10 Southern Pine No. 2

Overall Length: 15' 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)	3744 @ 2' 7.75"	8899 (3.50")	Passed (42%)	--	1.0 D + 1.0 S (Adj Spans)
Shear (lbs)	1996 @ 3' 6.75"	5585	Passed (36%)	1.15	1.0 D + 1.0 S (Adj Spans)
Moment (Ft-lbs)	4692 @ 7' 6.00"	4921	Passed (95%)	1.15	1.0 D + 1.0 S (Alt Spans)
Live Load Defl. (in)	0.142 @ 7' 6.00"	0.243	Passed (L/819)	--	1.0 D + 1.0 S (Alt Spans)
Total Load Defl. (in)	0.183 @ 7' 6.00"	0.485	Passed (L/638)	--	1.0 D + 1.0 S (Alt Spans)

 System : Floor
 Member Type : Flush Beam
 Building Use : Residential
 Building Code : IBC
 Design Methodology : ASD

- Deflection criteria: LL (L/480) and TL (L/240).
- Overhang deflection criteria: LL (2L/480) and TL (2L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 7' 5.92" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
- Applicable calculations are based on NDS.

Supports	Bearing			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Snow	Total	
1 - Column - HF	3.50"	3.50"	1.50"	979	2765	3744	Blocking
2 - Column - HF	3.50"	3.50"	1.50"	979	2765	3744	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	Tributary Width	Dead (0.90)	Snow (1.15)	Comments
1 - Uniform (PSF)	0 to 15' 0.00"	6' 0.00"	20.0	60.0	Deck load w/snow

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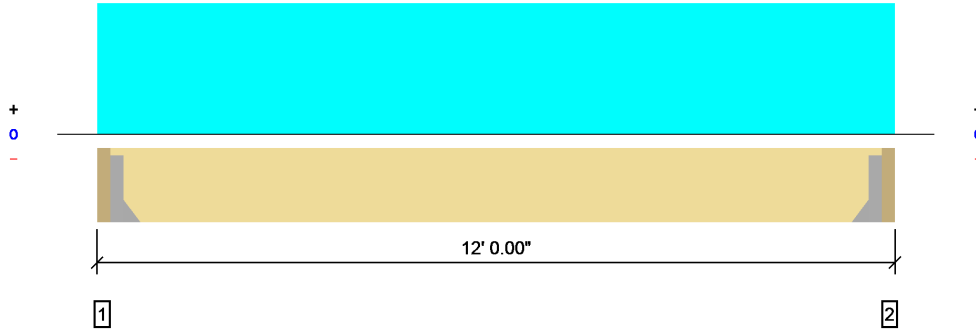


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Guy Poisson Hammond Lumber (207) 495-3303 gpoisson@hammondlumber.com	Paula Silsby Portland, Me

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1 piece(s) 2 x 10 Southern Pine No. 2 @ 16" OC

Overall Length: 12' 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)	609 @ 3.50"	1271 (1.50")	Passed (48%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	527 @ 1' 0.75"	1862	Passed (28%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	1738 @ 6' 0.00"	1887	Passed (92%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.221 @ 6' 0.00"	0.285	Passed (L/621)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.294 @ 6' 0.00"	0.571	Passed (L/465)	--	1.0 D + 1.0 S (All Spans)
TJ-Pro™ Rating	N/A	N/A	--	--	--

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

- Deflection criteria: LL (L/480) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 3' 10.78" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.
- A 15% increase in the moment capacity has been added to account for repetitive member usage.
- Applicable calculations are based on NDS.
- No composite action between deck and joist was considered in analysis.

Supports	Bearing			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Snow	Total	
1 - Hanger on 9 1/4" HF beam	3.50"	Hanger ¹	1.50"	160	480	640	See note ¹
2 - Hanger on 9 1/4" HF beam	3.50"	Hanger ¹	1.50"	160	480	640	See note ¹

- At hanger supports, the Total Bearing dimension is equal to the width of the material that is supporting the hanger
- ¹ See Connector grid below for additional information and/or requirements.

Connector: Simpson Strong-Tie Connectors							
Support	Model	Seat Length	Top Nails	Face Nails	Member Nails	Accessories	
1 - Face Mount Hanger	LU28	1.50"	N/A	8-10d common	6-10d x 1-1/2		
2 - Face Mount Hanger	LU28	1.50"	N/A	8-10d common	6-10d x 1-1/2		

Loads	Location	Spacing	Dead (0.90)	Snow (1.15)	Comments
1 - Uniform (PSF)	0 to 12' 0.00"	16"	20.0	60.0	Deck Load w/snow

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