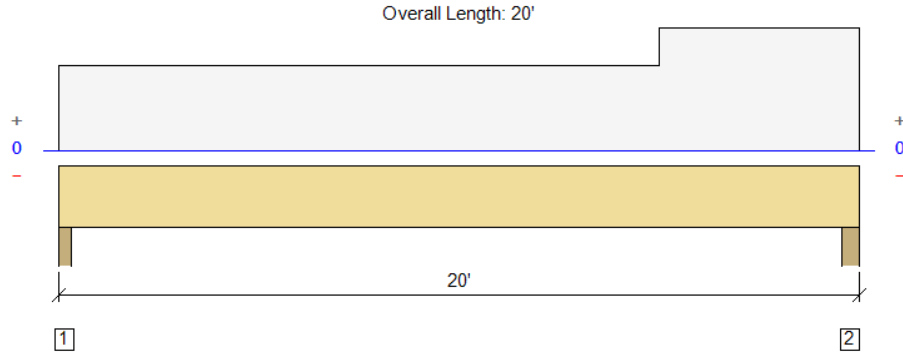


01: Level			
Member Name	Results	Current Solution	Errors
B01	Pass	2 Piece(s) 1 3/4" x 18" 1.9E Microllam® LVL	
B02	Pass	2 Piece(s) 1 3/4" x 18" 1.9E Microllam® LVL	
B03	Pass	3 Piece(s) 1 3/4" x 18" 1.9E Microllam® LVL	

Forte™ Software Operator	Job Notes
Sean Kelley Builders First Source (904) 680-6264 sean.kelley@bldr.com	Dreambuilders Custom Homes Lot 1 Avalon

2 piece(s) 1 3/4" x 18" 1.9E Microllam® LVL



All Dimensions are Horizontal; Drawing is Conceptual

Design Results	Actual @ Location	Allowed	Result	LDF	Load Combination (Load Pattern)
Member Reaction (lbs)	3952 @ 2"	9188	Passed (43%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	3566 @ 18' 1/2"	11970	Passed (30%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	19401 @ 10' 1 13/16"	38753	Passed (50%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.316 @ 9' 11 13/16"	0.650	Passed (L/741)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.451 @ 9' 11 13/16"	0.975	Passed (L/519)	--	1.0 D + 1.0 L (All Spans)

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

- Deflection criteria: LL (L/360) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 10' 2 1/2" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.

Supports	Bearing			Support Reactions (lbs)						Accessories
	Total	Available	Required	Dead	Floor live	Roof live	Snow	Wind	Seismic	
1 - Column - Southern Pine	3.50"	3.50"	1.51"	1189	2763	0	0	0	0	None
2 - Column - Southern Pine	5.50"	5.50"	1.77"	1379	3267	0	0	0	0	None

Loads	Location	Tributary Width	Dead (0.90)	Floor Live (1.00)	Roof Live (non-snow: 1.25)	Snow (1.15)	Wind (1.60)	Seismic (1.60)	Comments
1 - Uniform(PSF)	0 to 20'	1'	12.0	40.0	0.0	0.0	0.0	0.0	Residential - Living Areas
2 - Uniform(PLF)	0 to 15'	N/A	88.0	232.0	0.0	0.0	0.0	0.0	F11
3 - Uniform(PLF)	15' to 20'	N/A	132.0	350.0	0.0	0.0	0.0	0.0	F09

iLEVEL® Notes

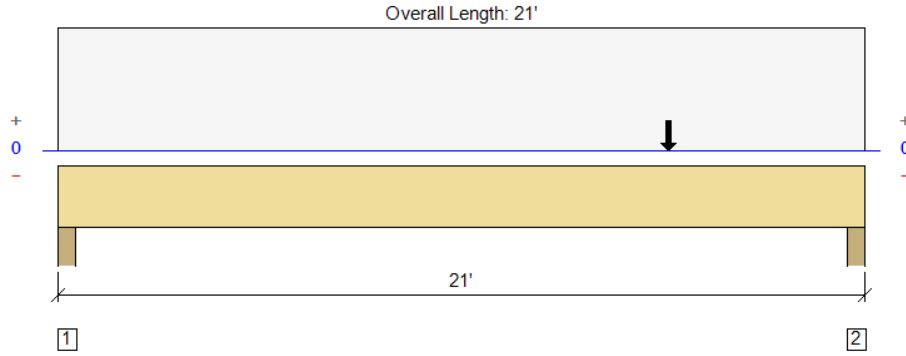
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The product application, input design loads, dimensions and support information have been provided by Forte Software Operator



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2 piece(s) 1 3/4" x 18" 1.9E Microllam® LVL



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Design Results	Actual @ Location	Allowed	Result	LDF	Load Combination (Load Pattern)
Member Reaction (lbs)	7812 @ 20' 8"	14438	Passed (54%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	6527 @ 19' 1/2"	11970	Passed (55%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	36869 @ 10' 11 3/16"	38753	Passed (95%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.657 @ 10' 7 1/4"	0.678	Passed (L/371)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.926 @ 10' 7 1/4"	1.017	Passed (L/264)	--	1.0 D + 1.0 L (All Spans)

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

- Deflection criteria: LL (L/360) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 11 1/2" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.

Supports	Bearing			Support Reactions (lbs)						Accessories
	Total	Available	Required	Dead	Floor live	Roof live	Snow	Wind	Seismic	
1 - Column - Southern Pine	5.50"	5.50"	2.73"	2087	5089	0	0	0	0	None
2 - Column - Southern Pine	5.50"	5.50"	2.98"	2260	5552	0	0	0	0	None

Loads	Location	Tributary Width	Dead (0.90)	Floor Live (1.00)	Roof Live (non-snow: 1.25)	Snow (1.15)	Wind (1.60)	Seismic (1.60)	Comments
1 - Uniform(PSF)	0 to 21'	1'	12.0	40.0	0.0	0.0	0.0	0.0	Residential - Living Areas
2 - Uniform(PLF)	0 to 21'	N/A	107.0	285.0	0.0	0.0	0.0	0.0	F06/F07
3 - Uniform(PLF)	0 to 21'	N/A	55.0	140.0	0.0	0.0	0.0	0.0	T26/T27
4 - Point(lb)	15' 10 1/2"	N/A	328	876	0	0	0	0	T28

iLEVEL® Notes

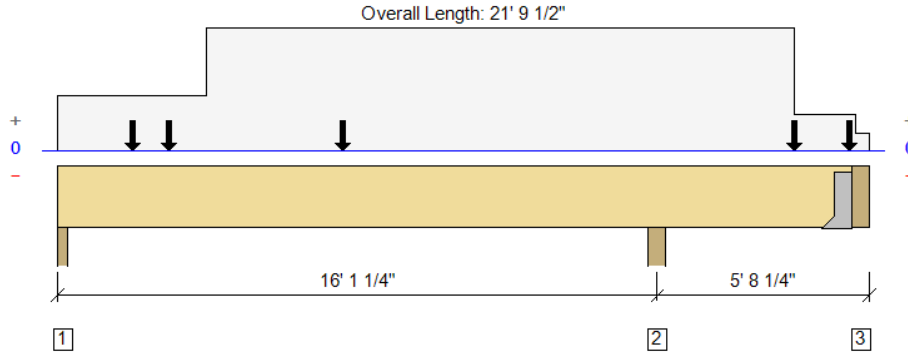
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Sean Kelley Builders First Source (904) 680-6264 sean.kelley@bldr.com	Dreambuilders Custom Homes Lot 1 Avalon

3 piece(s) 1 3/4" x 18" 1.9E Microllam® LVL



All Dimensions are Horizontal; Drawing is Conceptual

Design Results	Actual @ Location	Allowed	Result	LDF	Load Combination (Load Pattern)
Member Reaction (lbs)	13548 @ 16' 1 1/4"	21656	Passed (63%)	--	1.0 D + 1.0 L + 1.0 Lr (All Spans)
Shear (lbs)	7068 @ 14' 4 1/2"	22444	Passed (31%)	1.25	1.0 D + 1.0 L + 1.0 Lr (All Spans)
Moment (Ft-lbs)	27255 @ 7' 7 3/4"	72662	Passed (38%)	1.25	1.0 D + 1.0 L + 1.0 Lr (Alt Spans)
Live Load Defl. (in)	0.130 @ 7' 7 3/4"	0.531	Passed (L/999+)	--	1.0 D + 1.0 L + 1.0 Lr (Alt Spans)
Total Load Defl. (in)	0.231 @ 7' 7 3/4"	0.797	Passed (L/827)	--	1.0 D + 1.0 L + 1.0 Lr (Alt Spans)

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

- Deflection criteria: LL (L/360) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 15' 4 5/8" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.

Supports	Bearing			Support Reactions (lbs)						Accessories
	Total	Available	Required	Dead	Floor live	Roof live	Snow	Wind	Seismic	
1 - Column - Southern Pine	3.50"	3.50"	1.50"	2377	(822/-2)	1992	0	0	0	None
2 - Column - Southern Pine	5.50"	5.50"	3.44"	6384	967	6197	0	0	0	None
3 - 18" Beam - Southern Pine	5.50"	Hanger	Hanger	2274	(116/-314)	(3/-1837)	0	0	0	None

Connector: Simpson Strong-Tie Connectors

Support	Model	Top Nails	Face Nails	Member Nails	Accessories
3 - Face Mount Hanger	HHGU.5.50 (H1=15)	N/A	44-SDS self-drilling wood screw 0.242 dia. x 2 1/2"	28-SDS self-drilling wood screw 0.242 dia. x 2 1/2"	

Loads	Location	Tributary Width	Dead (0.90)	Floor Live (1.00)	Roof Live (non-snow: 1.25)	Snow (1.15)	Wind (1.60)	Seismic (1.60)	Comments
1 - Uniform(PSF)	0 to 21' 9 1/2"	1'	12.0	40.0	0.0	0.0	0.0	0.0	Residential - Living Areas
2 - Point(lb)	2'	N/A	55	155	0	0	0	0	F16
3 - Point(lb)	3'	N/A	210	562	0	0	0	0	F17
4 - Uniform(PLF)	4' to 21' 5"	N/A	20.0	0.0	35.0	0.0	0.0	0.0	T25
5 - Point(lb)	7' 7 3/4"	N/A	2432	0	4054	0	0	0	T01
6 - Uniform(PLF)	0 to 19' 9 1/2"	N/A	110.0	0.0	0.0	0.0	0.0	0.0	wall
7 - Point(lb)	19' 9 1/2"	N/A	162	0	270	0	0	0	HJ02
8 - Uniform(PLF)	4' to 19' 9 1/2"	N/A	56.0	0.0	90.0	0.0	0.0	0.0	Jacks above
9 - Point(lb)	21' 3"	N/A	3948	0	0	0	0	0	tie down

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