Level			
Member Name	**Results**	**Current Solution**	**Comments**
BM1	Passed	4 piece(s) 1 3/4" x 18" 2.0E Microllam® LVL	
BM2	Passed	2 piece(s) 1 3/4" x 14" 2.0E Microllam® LVL	
BM3	Passed	2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL	
GDH1	Passed	2 piece(s) 1 3/4" x 11 7/8" 2.0E Microllam® LVL	
GDH2	Passed	2 piece(s) 1 3/4" x 11 7/8" 2.0E Microllam® LVL	

ForteWEB Software Operator	Job Notes
Russell Culbreth Builders FirstSource (910) 485-1111 russell.culbreth@bldr.com	Bridgeport Homes Reed 2 Plan

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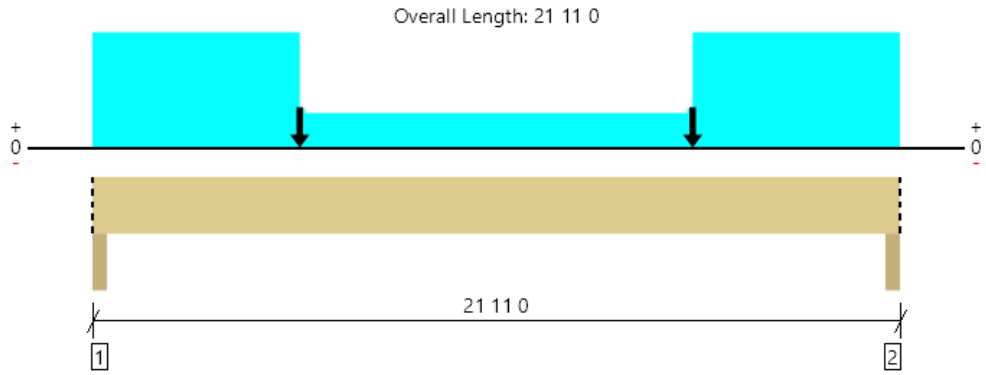
Level, BM1

4 piece(s) 1 3/4" x 18" 2.0E Microllam® LVL



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)	9299 @ 0 2 0	17763 (3.50")	Passed (52%)	--	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Shear (lbs)	7722 @ 1 9 8	27531	Passed (28%)	1.15	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Moment (Ft-lbs)	40721 @ 10 11 8	89132	Passed (46%)	1.15	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Live Load Defl. (in)	0.264 @ 10 11 8	0.540	Passed (L/982)	--	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Total Load Defl. (in)	0.575 @ 10 11 8	0.719	Passed (L/451)	--	1.0 D + 0.75 L + 0.75 Lr (All Spans)

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

- Deflection criteria: LL (L/480) and TL (L/360).
- Allowed moment does not reflect the adjustment for the beam stability factor.
- Member should be side-loaded from both sides of the member or braced to prevent rotation.

Supports	Bearing Length			Loads to Supports (lbs)				Accessories
	Total	Available	Required	Dead	Floor Live	Roof Live	Factored	
1 - Column - SPF	3.50"	3.50"	1.83"	5188	2070	3411	9299	Blocking
2 - Column - SPF	3.50"	3.50"	1.83"	5188	2070	3411	9299	Blocking

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

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	16 0 0 o/c	
Bottom Edge (Lu)	21 11 0 o/c	

•Maximum allowable bracing intervals based on applied load.

Multiple Member Connections							
Type	Location	Fastener	Placement	Rows	O.C.	# of Fasteners	Details
Uniform	0 0 0 to 21 11 0	Strong-Drive® SDS Screw SDS25600 (6")	Both Faces	2	24"	--	L17

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Floor Live (1.00)	Roof Live (non-snow: 1.15)	Comments
0 - Self Weight (PLF)	0 0 0 to 21 11 0	N/A	36.8	--	--	
1 - Uniform (PSF)	5 9 4 to 16 1 12 (Front)	1 0 0	15.0	40.0	-	Default Load
2 - Uniform (PLF)	0 0 0 to 5 7 8 (Top)	N/A	318.0	-	318.0	A02
3 - Uniform (PLF)	0 0 0 to 5 9 4 (Top)	N/A	96.0	-	-	WALL
4 - Point (lb)	5 7 8 (Top)	N/A	1674	-	1622	BM3
5 - Point (lb)	16 3 8 (Top)	N/A	1674	-	1622	BM3
6 - Uniform (PLF)	16 1 12 to 21 11 0 (Top)	N/A	96.0	-	-	WALL
7 - Uniform (PLF)	16 3 8 to 21 11 0 (Top)	N/A	318.0	-	318.0	A02
8 - Uniform (PLF)	0 0 0 to 21 11 0 (Back)	N/A	63.0	170.0	-	F02

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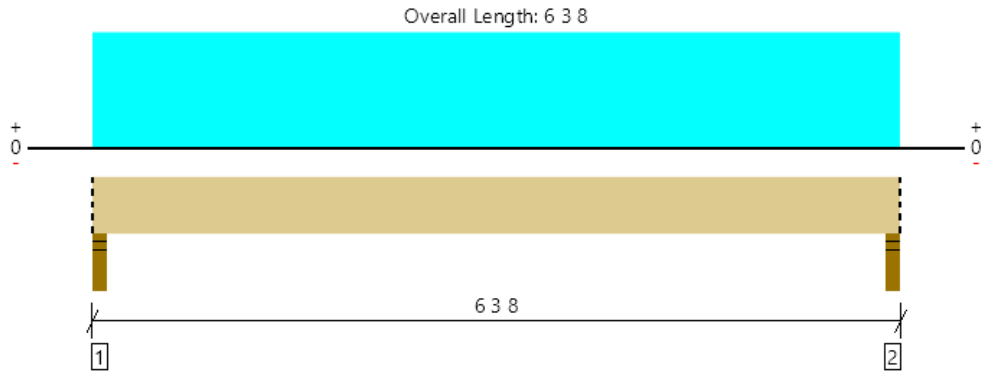
The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

Level, BM2

2 piece(s) 1 3/4" x 14" 2.0E Microllam® LVL



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)	2197 @ 0 2 0	5206 (3.50")	Passed (42%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	1178 @ 1 5 8	9310	Passed (13%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	3099 @ 3 1 12	24258	Passed (13%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.009 @ 3 1 12	0.149	Passed (L/999+)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.020 @ 3 1 12	0.199	Passed (L/999+)	--	1.0 D + 1.0 L (All Spans)

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

- Deflection criteria: LL (L/480) and TL (L/360).
- Allowed moment does not reflect the adjustment for the beam stability factor.

Supports	Bearing Length			Loads to Supports (lbs)				Accessories
	Total	Available	Required	Dead	Floor Live	Roof Live	Factored	
1 - Stud wall - SPF	3.50"	3.50"	1.50"	1206	991	173	2197	Blocking
2 - Stud wall - SPF	3.50"	3.50"	1.50"	1206	991	173	2197	Blocking

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

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	6 4 0 o/c	
Bottom Edge (Lu)	6 4 0 o/c	

•Maximum allowable bracing intervals based on applied load.

Multiple Member Connections

Type	Location	Fastener	Placement	Rows	O.C.	# of Fasteners	Details
Uniform	0 0 0 to 6 3 8	10d Nail (0.128" x 3") [1]	One Face	3	12"	--	L17

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Floor Live (1.00)	Roof Live (non-snow: 1.15)	Comments
0 - Self Weight (PLF)	0 0 0 to 6 3 8	N/A	14.3	--	--	
1 - Uniform (PLF)	0 0 0 to 6 3 8 (Top)	N/A	141.0	-	40.0	GABLE
2 - Uniform (PLF)	0 0 0 to 6 3 8 (Top)	N/A	96.0	-	-	WALL
3 - Uniform (PLF)	0 0 0 to 6 3 8 (Back)	N/A	117.0	315.0	-	F07
4 - Uniform (PLF)	0 0 0 to 6 3 8 (Front)	N/A	15.0	-	15.0	D04

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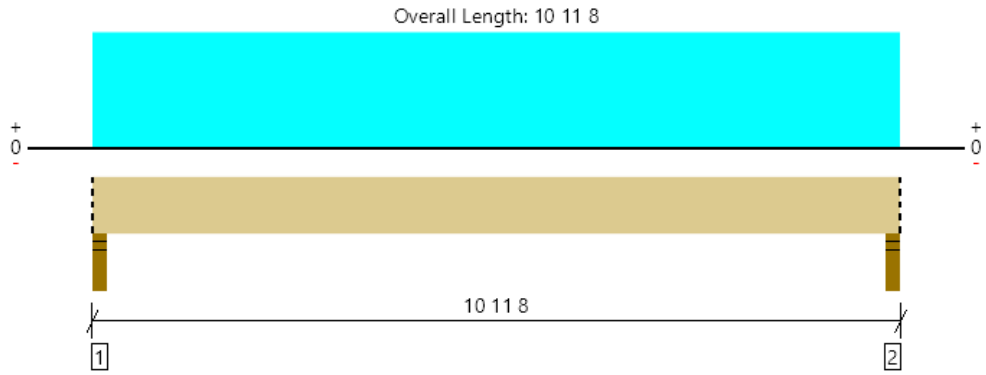
ForteWEB Software Operator	Job Notes
Russell Culbreth Builders FirstSource (910) 485-1111 russell.culbreth@bldr.com	Bridgeport Homes Reed 2 Plan

Weyerhaeuser

Level, BM3

2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL



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)	3295 @ 0 2 0	5206 (3.50")	Passed (63%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	2656 @ 1 0 12	7074	Passed (38%)	1.15	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	8487 @ 5 5 12	12884	Passed (66%)	1.15	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.199 @ 5 5 12	0.354	Passed (L/642)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.404 @ 5 5 12	0.531	Passed (L/316)	--	1.0 D + 1.0 Lr (All Spans)

System : Roof
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2015
Design Methodology : ASD
Member Pitch : 0/12

- Deflection criteria: LL (L/360) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Roof Live	Factored	
1 - Stud wall - SPF	3.50"	3.50"	2.22"	1674	1622	3295	Blocking
2 - Stud wall - SPF	3.50"	3.50"	2.22"	1674	1622	3295	Blocking

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

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	11 0 0 o/c	
Bottom Edge (Lu)	11 0 0 o/c	

•Maximum allowable bracing intervals based on applied load.

Multiple Member Connections

Type	Location	Fastener	Placement	Rows	O.C.	# of Fasteners	Details
Uniform	0 0 0 to 10 11 8	10d Nail (0.128" x 3") [1]	One Face	3	12"	--	L17

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Roof Live (non-snow: 1.15)	Comments
0 - Self Weight (PLF)	0 0 0 to 10 11 8	N/A	9.4	--	
1 - Uniform (PLF)	0 0 0 to 10 11 8 (Back)	N/A	296.0	296.0	A03

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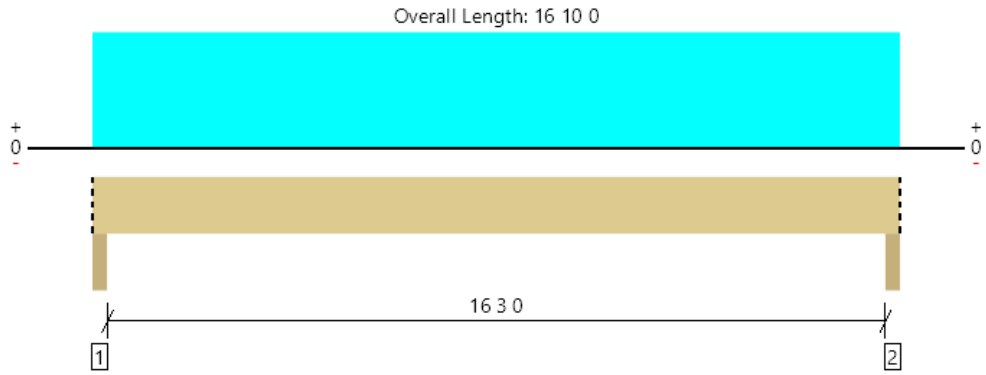
Level, GDH1

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



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)	2299 @ 0 2 0	8881 (3.50")	Passed (26%)	--	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Shear (lbs)	1806 @ 1 3 6	7897	Passed (23%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	8614 @ 8 5 0	17848	Passed (48%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.108 @ 8 5 0	0.412	Passed (L/999+)	--	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Total Load Defl. (in)	0.492 @ 8 5 0	0.550	Passed (L/402)	--	1.0 D + 0.75 L + 0.75 Lr (All Spans)

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

- Deflection criteria: LL (L/480) and TL (L/360).
- Allowed moment does not reflect the adjustment for the beam stability factor.

Supports	Bearing Length			Loads to Supports (lbs)				Accessories
	Total	Available	Required	Dead	Floor Live	Roof Live	Factored	
1 - Column - SPF	3.50"	3.50"	1.50"	1794	337	337	2299	Blocking
2 - Column - SPF	3.50"	3.50"	1.50"	1794	337	337	2299	Blocking

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

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	16 0 0 o/c	
Bottom Edge (Lu)	16 10 0 o/c	

•Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Floor Live (1.00)	Roof Live (non-snow: 1.15)	Comments
0 - Self Weight (PLF)	0 0 0 to 16 10 0	N/A	12.1	--	--	
1 - Uniform (PSF)	0 0 0 to 16 10 0 (Front)	1 0 0	15.0	40.0	-	Default Load
2 - Uniform (PLF)	0 0 0 to 16 10 0 (Top)	N/A	186.0	-	40.0	GABLE

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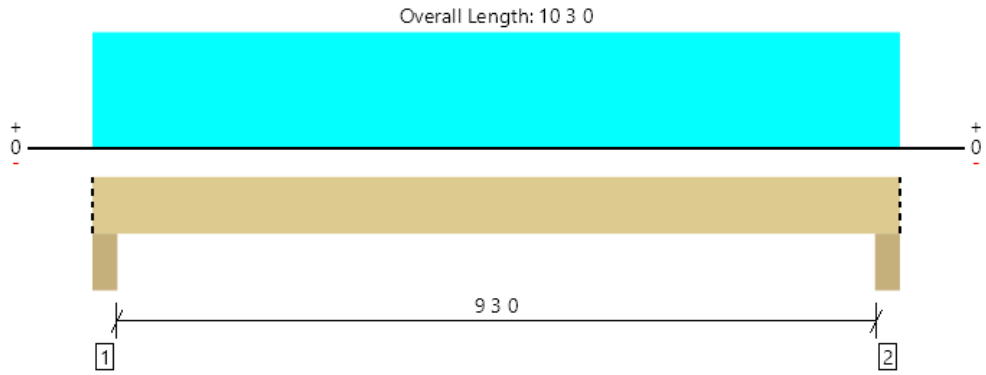
Level, GDH2

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



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)	2245 @ 0 4 8	15225 (6.00")	Passed (15%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	1593 @ 1 5 14	9081	Passed (18%)	1.15	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	4943 @ 5 1 8	20525	Passed (24%)	1.15	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.047 @ 5 1 8	0.317	Passed (L/999+)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.096 @ 5 1 8	0.475	Passed (L/999+)	--	1.0 D + 1.0 Lr (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).
- Allowed moment does not reflect the adjustment for the beam stability factor.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Roof Live	Factored	
1 - Column - SPF	6.00"	6.00"	1.50"	1154	1092	2245	Blocking
2 - Column - SPF	6.00"	6.00"	1.50"	1154	1092	2245	Blocking

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

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	10 3 0 o/c	
Bottom Edge (Lu)	10 3 0 o/c	

•Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Roof Live (non-snow: 1.15)	Comments
0 - Self Weight (PLF)	0 0 0 to 10 3 0	N/A	12.1	--	
1 - Uniform (PLF)	0 0 0 to 10 3 0 (Top)	N/A	213.0	213.0	G02

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