

Main Floor

Member Name	Results (Max UTIL %)	Current Solution	Comments
Master Bedroom Window Header	Passed (53% R)	3 piece(s) 1 3/4" x 14" 2.0E Microllam® LVL	
Dining Room Window Header	Passed (44% R)	2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL	

Lower Floor

Member Name	Results (Max UTIL %)	Current Solution	Comments
Bedroom 3 Window Header	Passed (45% R)	2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL	
Lower Storage Room Door Header	Passed (82% R)	2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL	
Bedroom 3 Closet Header	Passed (41% ΔL)	2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL	
Basement Landing Header	Passed (27% ΔL)	2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL	
Basement Game Room Header	Passed (35% R)	2 piece(s) 1 3/4" x 14" 2.0E Microllam® LVL	

ForteWEB Software Operator	Job Notes
Thomas Moorhead Weyerhaeuser (501) 624-8526 thomas.moorhead@weyerhaeuser.com	Sandford, NC 27330 Ticket # 162106

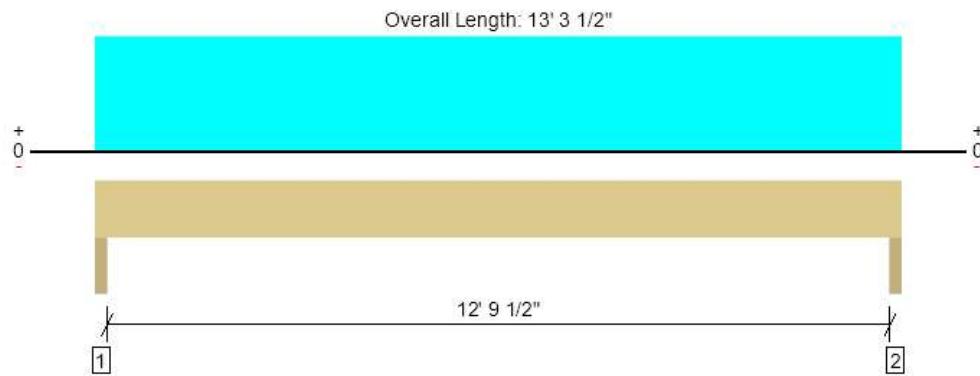


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ForteWEB v3.9

File Name: 162106

Main Floor, Master Bedroom Window Header
3 piece(s) 1 3/4" x 14" 2.0E Microllam® LVL



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

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	6102 @ 1 1/2"	11419 (3.00")	Passed (53%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	4801 @ 1' 5"	16060	Passed (30%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	19519 @ 6' 7 3/4"	41846	Passed (47%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.135 @ 6' 7 3/4"	0.326	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.279 @ 6' 7 3/4"	0.652	Passed (L/560)	--	1.0 D + 1.0 S (All Spans)

Member Length : 13' 3 1/2"
 System : Wall
 Member Type : Header
 Building Use : Residential
 Building Code : IBC 2021
 Design Methodology : ASD

- Deflection criteria: LL (L/480) 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	Snow	Factored	
1 - Trimmer - SPF	3.00"	3.00"	1.60"	3155	2946	2946	6102	None
2 - Trimmer - SPF	3.00"	3.00"	1.60"	3155	2946	2946	6102	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	13' 4" o/c	
Bottom Edge (Lu)	13' 4" o/c	

• Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Tributary Width	Dead (0.90)	Roof Live (1.25)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 to 13' 3 1/2"	N/A	21.5	--	--	
1 - Uniform (PSF)	0 to 13' 3 1/2"	22' 2"	20.0	20.0	20.0	Roof Load
2 - Uniform (PLF)	0 to 13' 3 1/2"	N/A	10.0	--	--	1ft of wall above

Member Notes
<ul style="list-style-type: none"> This calculation is a preliminary analysis based solely on gravity loads and is applicable only to TrusJoist® products for the referenced project. Member reactions must be supported by adequately sized structural member(s). If this beam replaces a braced wall, alternate wall bracing is required according to Chapter 6 of the International Residential Code (IRC). The Designer of Record (DOR) must address the continuity of ceiling joists if the beam placement changes the ceiling framing.

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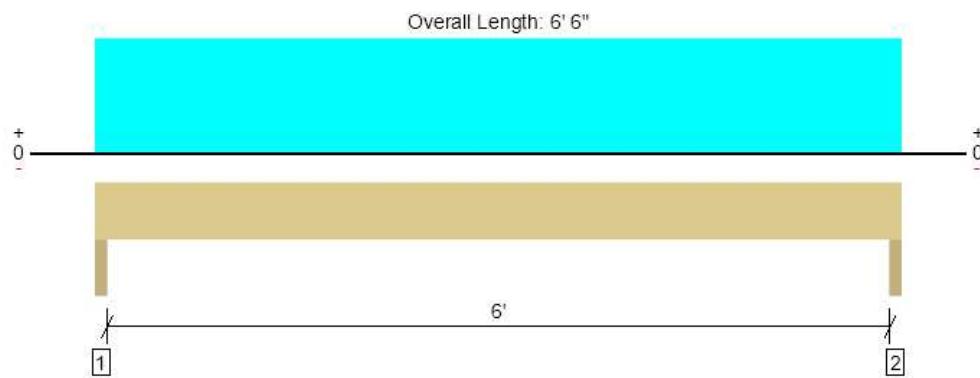
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ForteWEB v3.9, Engine: V8.4.3.94, Data: V8.1.7.3

File Name: 162106

Main Floor, Dining Room Window Header
2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL



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

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	3329 @ 1 1/2"	7613 (3.00")	Passed (44%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	2284 @ 1' 1/4"	7074	Passed (32%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	5002 @ 3' 3"	12884	Passed (39%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.046 @ 3' 3"	0.156	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.094 @ 3' 3"	0.313	Passed (L/798)	--	1.0 D + 1.0 S (All Spans)

Member Length : 6' 6"
System : Wall
Member Type : Header
Building Use : Residential
Building Code : IBC 2021
Design Methodology : ASD

- Deflection criteria: LL (L/480) 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	Snow	Factored	
1 - Trimmer - SPF	3.00"	3.00"	1.50"	1696	1633	1633	3329	None
2 - Trimmer - SPF	3.00"	3.00"	1.50"	1696	1633	1633	3329	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	6' 6" o/c	
Bottom Edge (Lu)	6' 6" o/c	

• Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Tributary Width	Dead (0.90)	Roof Live (1.25)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 to 6' 6"	N/A	9.4	--	--	
1 - Uniform (PSF)	0 to 6' 6"	25' 1 1/2"	20.0	20.0	20.0	Roof Load
2 - Uniform (PLF)	0 to 6' 6"	N/A	10.0	--	--	1ft of wall above

Member Notes
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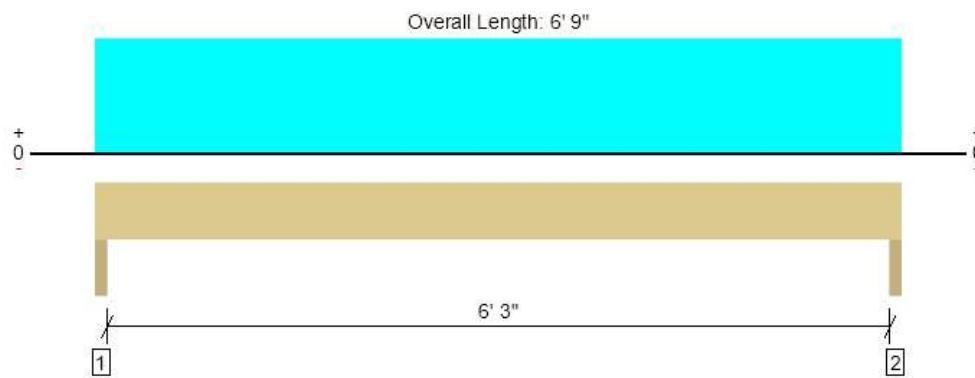
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File Name: 162106

Lower Floor, Bedroom 3 Window Header
2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL



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

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	3418 @ 1 1/2"	7613 (3.00")	Passed (45%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	2384 @ 1' 1/4"	7074	Passed (34%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	5349 @ 3' 4 1/2"	12884	Passed (42%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.047 @ 3' 4 1/2"	0.162	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.107 @ 3' 4 1/2"	0.325	Passed (L/728)	--	1.0 D + 1.0 S (All Spans)

Member Length : 6' 9"
 System : Wall
 Member Type : Header
 Building Use : Residential
 Building Code : IBC 2021
 Design Methodology : ASD

- Deflection criteria: LL (L/480) 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	Floor Live	Roof Live	Snow		
1 - Trimmer - SPF	3.00"	3.00"	1.50"	1922	90	1496	1496	3418	None
2 - Trimmer - SPF	3.00"	3.00"	1.50"	1922	90	1496	1496	3418	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	6' 9" o/c	
Bottom Edge (Lu)	6' 9" o/c	

• Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Tributary Width	Dead (0.90)	Floor Live (1.00)	Roof Live (1.25)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 to 6' 9"	N/A	9.4	--	--	--	
1 - Uniform (PSF)	0 to 6' 9"	22' 2"	20.0	--	20.0	20.0	Roof Load
2 - Uniform (PLF)	0 to 6' 9"	N/A	110.0	--	--	--	11ft of wall above
3 - Uniform (PSF)	0 to 6' 9"	8"	10.0	40.0	--	--	Floor above

Member Notes

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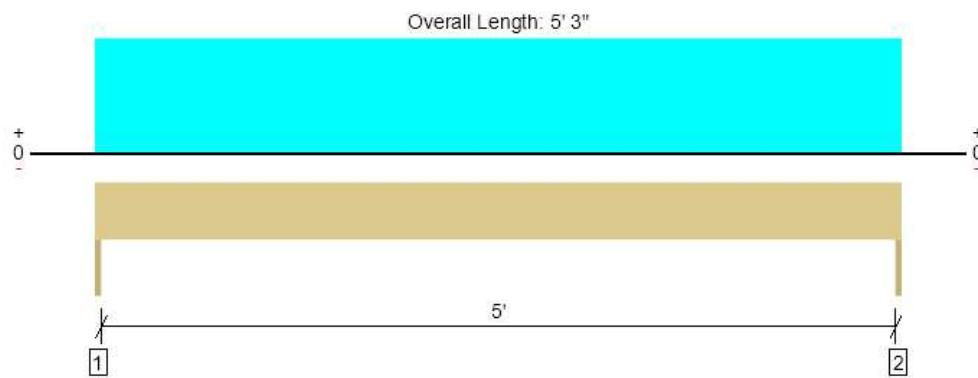
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File Name: 162106

Lower Floor, Lower Storage Room Door Header
2 piece(s) 1 3/4" x 9 1/4" 2.0E Microlam® LVL



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

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	3112 @ 0	3806 (1.50")	Passed (82%)	--	1.0 D + 0.75 L + 0.75 S (All Spans)
Shear (lbs)	2050 @ 10 3/4"	7074	Passed (29%)	1.15	1.0 D + 0.75 L + 0.75 S (All Spans)
Moment (Ft-lbs)	4084 @ 2' 7 1/2"	12884	Passed (32%)	1.15	1.0 D + 0.75 L + 0.75 S (All Spans)
Live Load Defl. (in)	0.025 @ 2' 7 1/2"	0.131	Passed (L/999+)	--	1.0 D + 0.75 L + 0.75 S (All Spans)
Total Load Defl. (in)	0.058 @ 2' 7 1/2"	0.262	Passed (L/999+)	--	1.0 D + 0.75 L + 0.75 S (All Spans)

Member Length : 5' 3"
 System : Wall
 Member Type : Header
 Building Use : Residential
 Building Code : IBC 2021
 Design Methodology : ASD

- Deflection criteria: LL (L/480) 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	Floor Live	Roof Live	Snow		
1 - Trimmer - SPF	1.50"	1.50"	1.50"	1755	490	1319	1319	3112	None
2 - Trimmer - SPF	1.50"	1.50"	1.50"	1755	490	1319	1319	3112	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	5' 3" o/c	
Bottom Edge (Lu)	5' 3" o/c	

• Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Tributary Width	Dead (0.90)	Floor Live (1.00)	Roof Live (1.25)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 to 5' 3"	N/A	9.4	--	--	--	
1 - Uniform (PSF)	0 to 5' 3"	25' 1 1/2"	20.0	--	20.0	20.0	Roof Load
2 - Uniform (PLF)	0 to 5' 3"	N/A	110.0	--	--	--	11ft of wall above
3 - Uniform (PSF)	0 to 5' 3"	4' 8"	10.0	40.0	--	--	Floor/deck above

Member Notes

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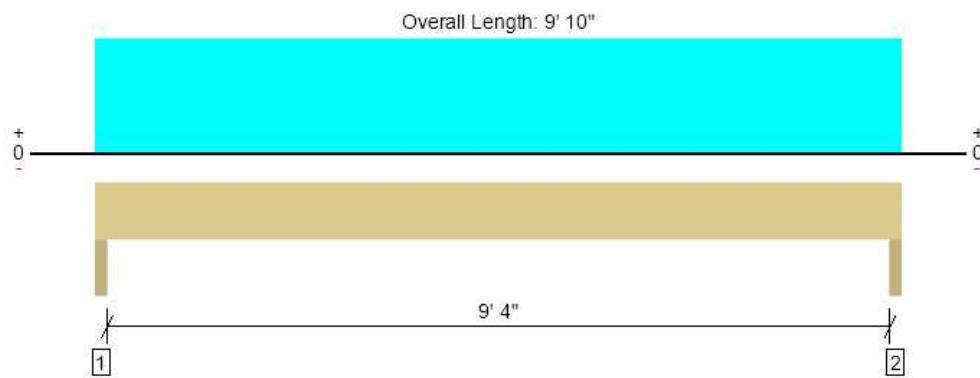
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File Name: 162106

Lower Floor, Bedroom 3 Closet Header
2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL



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

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	1811 @ 1 1/2"	7613 (3.00")	Passed (24%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	1435 @ 1' 1/4"	6151	Passed (23%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	4228 @ 4' 11"	11204	Passed (38%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.098 @ 4' 11"	0.240	Passed (L/999+)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.166 @ 4' 11"	0.479	Passed (L/691)	--	1.0 D + 1.0 L (All Spans)

Member Length : 9' 10"
 System : Wall
 Member Type : Header
 Building Use : Residential
 Building Code : IBC 2021
 Design Methodology : ASD

- Deflection criteria: LL (L/480) 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	Floor Live	Factored	
1 - Trimmer - SPF	3.00"	3.00"	1.50"	745	1065	1811	None
2 - Trimmer - SPF	3.00"	3.00"	1.50"	745	1065	1811	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	9' 10" o/c	
Bottom Edge (Lu)	9' 10" o/c	

•Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Tributary Width	Dead (0.90)	Floor Live (1.00)	Comments
0 - Self Weight (PLF)	0 to 9' 10"	N/A	9.4	--	
1 - Uniform (PLF)	0 to 9' 10"	N/A	88.0	--	11ft of wall above
2 - Uniform (PSF)	0 to 9' 10"	5' 5"	10.0	40.0	Floor above

Member Notes
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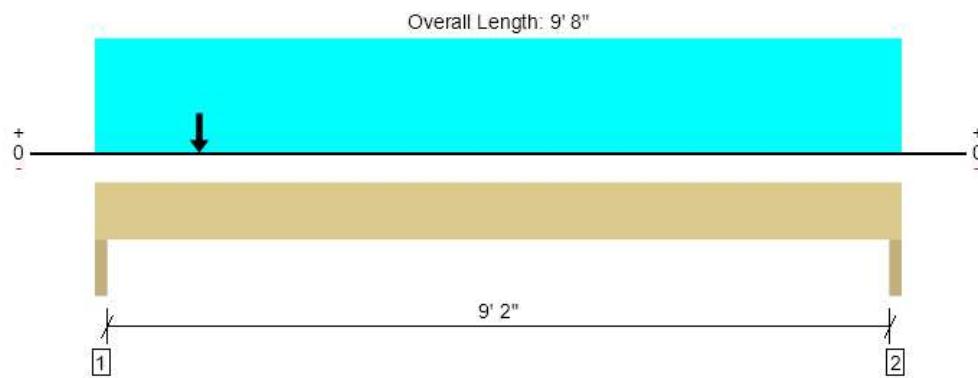
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File Name: 162106

Lower Floor, Basement Landing Header
2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL



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

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	1242 @ 1 1/2"	7613 (3.00")	Passed (16%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	1041 @ 1' 1/4"	6151	Passed (17%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	2373 @ 4' 7 5/8"	11204	Passed (21%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.063 @ 4' 10 1/16"	0.235	Passed (L/999+)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.091 @ 4' 9 3/8"	0.471	Passed (L/999+)	--	1.0 D + 1.0 L (All Spans)

Member Length : 9' 8"
System : Wall
Member Type : Header
Building Use : Residential
Building Code : IBC 2021
Design Methodology : ASD

- Deflection criteria: LL (L/480) 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	Floor Live	Factored	
1 - Trimmer - SPF	3.00"	3.00"	1.50"	517	725	1242	None
2 - Trimmer - SPF	3.00"	3.00"	1.50"	266	725	991	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	9' 8" o/c	
Bottom Edge (Lu)	9' 8" o/c	

• Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Tributary Width	Dead (0.90)	Floor Live (1.00)	Comments
0 - Self Weight (PLF)	0 to 9' 8"	N/A	9.4	--	
1 - Uniform (PSF)	0 to 9' 8"	3' 9"	10.0	40.0	Floor above
2 - Point (lb)	1' 3"	N/A	330	--	Point load from double 2x12 carry wall above

Member Notes

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Job Notes
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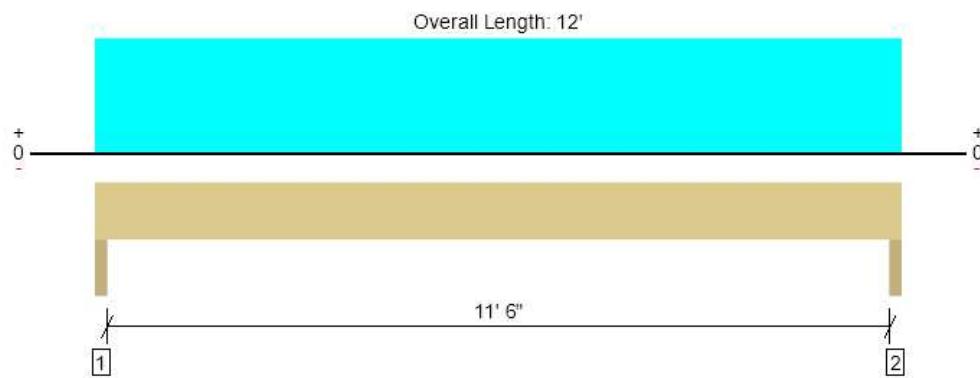
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File Name: 162106

Lower Floor, Basement Game Room Header
2 piece(s) 1 3/4" x 14" 2.0E Microllam® LVL



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

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	2686 @ 1 1/2"	7613 (3.00")	Passed (35%)	--	1.0 D + 1.0 L (All Spans)
Shear (lbs)	2052 @ 1' 5"	9310	Passed (22%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	7725 @ 6'	24258	Passed (32%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.058 @ 6'	0.294	Passed (L/999+)	--	1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.138 @ 6'	0.587	Passed (L/999+)	--	1.0 D + 1.0 L (All Spans)

Member Length : 12'
 System : Wall
 Member Type : Header
 Building Use : Residential
 Building Code : IBC 2021
 Design Methodology : ASD

- Deflection criteria: LL (L/480) 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	Floor Live	Factored	
1 - Trimmer - SPF	3.00"	3.00"	1.50"	1566	1120	2686	None
2 - Trimmer - SPF	3.00"	3.00"	1.50"	1566	1120	2686	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	12' o/c	
Bottom Edge (Lu)	12' o/c	

• Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Tributary Width	Dead (0.90)	Floor Live (1.00)	Comments
0 - Self Weight (PLF)	0 to 12'	N/A	14.3	--	
1 - Uniform (PSF)	0 to 12'	4' 8"	10.0	40.0	Floor above
2 - Uniform (PLF)	0 to 12'	N/A	200.0	--	Wall above

Member Notes
<ul style="list-style-type: none"> This calculation is a preliminary analysis based solely on gravity loads and is applicable only to TrusJoist® products for the referenced project. Member reactions must be supported by adequately sized structural member(s). If this beam replaces a braced wall, alternate wall bracing is required according to Chapter 6 of the International Residential Code (IRC). The Designer of Record (DOR) must address the continuity of ceiling joists if the beam placement changes the ceiling framing.

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