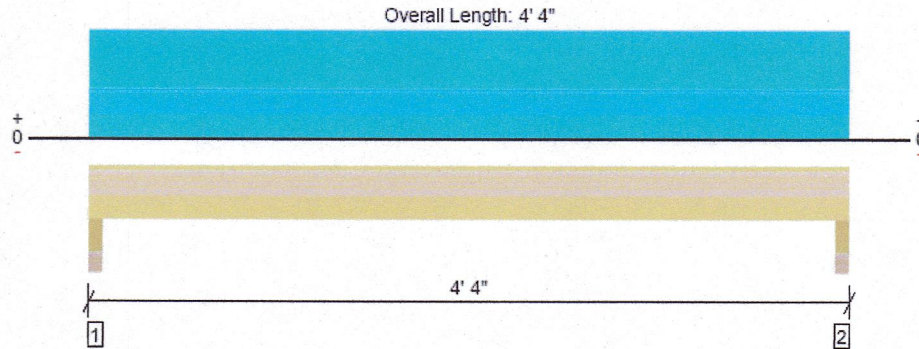


Level, Wall: Header
2 piece(s) 1 3/4" x 9 1/4" 2.0E Microllam® LVL



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)	1537 @ 2"	8881 (3.50")	Passed (17%)	--	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Shear (lbs)	629 @ 1' 3/4"	6151	Passed (10%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	1139 @ 2' 2"	11204	Passed (10%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.008 @ 2' 2"	0.100	Passed (L/999+)	--	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Total Load Defl. (in)	0.014 @ 2' 2"	0.200	Passed (L/999+)	--	1.0 D + 0.75 L + 0.75 Lr (All Spans)

Member Length : 4' 4"
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	Factored	
1 - Trimmer - SPF	3.50"	3.50"	1.50"	627	607	607	1537	None
2 - Trimmer - SPF	3.50"	3.50"	1.50"	627	607	607	1537	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	4' 4" o/c	
Bottom Edge (Lu)	4' 4" 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)	Comments
0 - Self Weight (PLF)	0 to 4' 4"	N/A	9.4	--	--	
1 - Uniform (PSF)	0 to 4' 4"	14'	20.0	20.0	20.0	Default Load

Member Notes
BEDROOM 1 HALL FLUSH CEILING BEAM ✓

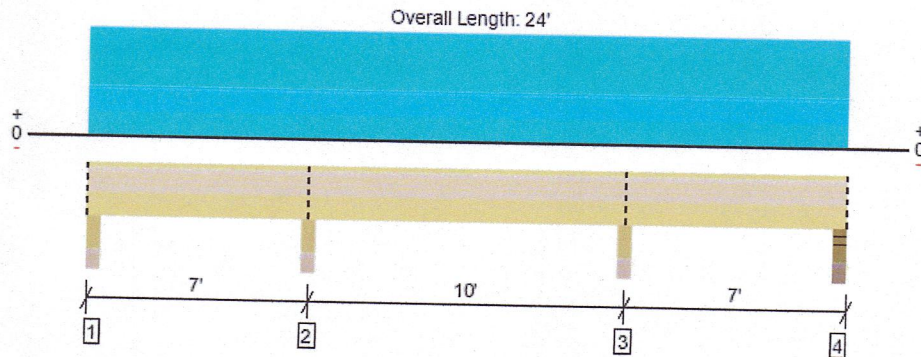
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The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

ForteWEB Software Operator	Job Notes
chris claffey professional builds supply (910) 279-0610 chris.claffey@pb-supply.com	117 COLLINS RD., LILLINGTON, NC. DOWDY RESIDENCE



7/25/2025 2:28:49 PM UTC
ForteWEB v3.9, Engine: V8.4.3.94, Data: V8.1.7.3
File Name: MILTON ENTERPRISES

Level, Roof: Drop Beam
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)	7027 @ 7'	8881 (3.50")	Passed (79%)	--	1.0 D + 1.0 Lr (Adj Spans)
Shear (lbs)	3039 @ 7' 11"	7689	Passed (40%)	1.25	1.0 D + 1.0 Lr (Adj Spans)
Moment (Ft-lbs)	-5648 @ 7'	14005	Passed (40%)	1.25	1.0 D + 1.0 Lr (Adj Spans)
Live Load Defl. (in)	0.080 @ 12'	0.333	Passed (L/999+)	--	1.0 D + 1.0 Lr (Alt Spans)
Total Load Defl. (in)	0.146 @ 12'	0.500	Passed (L/824)	--	1.0 D + 1.0 Lr (Alt Spans)

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

Member Length : 24'
System : Roof
Member Type : Drop Beam
Building Use : Residential
Building Code : IBC 2021
Design Methodology : ASD
Member Pitch : 0/12

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Roof Live	Factored	
1 - Column - SPF	3.50"	3.50"	1.50"	916	1043	1958	Blocking
2 - Column - SPF	3.50"	3.50"	2.77"	3518	3509	7027	Blocking
3 - Column - SPF	3.50"	3.50"	2.77"	3518	3509	7027	Blocking
4 - Stud wall - SPF	3.50"	3.50"	1.50"	916	1043	1958	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)	24' o/c	
Bottom Edge (Lu)	20' 8" o/c	

- Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Roof Live (1.25)	Comments
0 - Self Weight (PLF)	0 to 24'	N/A	9.4	--	
1 - Uniform (PSF)	0 to 24' (Front)	18'	20.0	20.0	Default Load

- Side loads are assumed to not induce cross-grain tension.

Member Notes

FRONT PORCH FRONT

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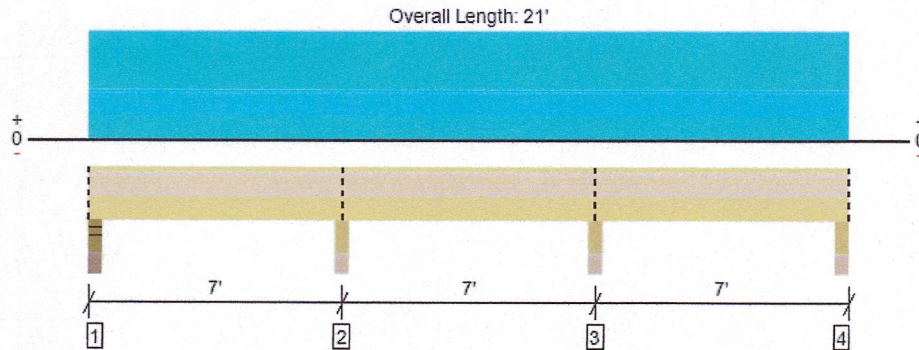
The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

ForteWEB Software Operator	Job Notes
chris claffey professional builds supply (910) 279-0610 chris.claffey@pb-supply.com	117 COLLINS RD., LILLINGTON, NC. DOWDY RESIDENCE



7/25/2025 1:42:34 PM UTC
ForteWEB v3.9, Engine: V8.4.3.94, Data: V8.1.7.3
File Name: MILTON ENTERPRISES

Level, Roof: Drop Beam
2 piece(s) 2 x 10 SP No.2



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)	1146 @ 7'	5933 (3.50")	Passed (19%)	--	1.0 D + 1.0 Lr (Adj Spans)
Shear (lbs)	475 @ 6' 1"	4047	Passed (12%)	1.25	1.0 D + 1.0 Lr (Adj Spans)
Moment (Ft-lbs)	-733 @ 7'	3566	Passed (21%)	1.25	1.0 D + 1.0 Lr (Adj Spans)
Live Load Defl. (in)	0.009 @ 17' 8"	0.228	Passed (L/999+)	--	1.0 D + 1.0 Lr (Alt Spans)
Total Load Defl. (in)	0.015 @ 3' 3 5/16"	0.342	Passed (L/999+)	--	1.0 D + 1.0 Lr (Alt Spans)

Member Length : 21'
System : Roof
Member Type : Drop Beam
Building Use : Residential
Building Code : IBC 2021
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.
- Applicable calculations are based on NDS.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Roof Live	Factored	
1 - Stud wall - SPF	3.50"	3.50"	1.50"	193	245	439	Blocking
2 - Column - SPF	3.50"	3.50"	1.50"	510	636	1146	Blocking
3 - Column - SPF	3.50"	3.50"	1.50"	510	636	1146	Blocking
4 - Column - SPF	3.50"	3.50"	1.50"	193	245	439	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)	21' o/c	
Bottom Edge (Lu)	21' o/c	

•Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Roof Live (1.25)	Comments
0 - Self Weight (PLF)	0 to 21'	N/A	7.0	--	
1 - Uniform (PSF)	0 to 21' (Front)	4'	15.0	20.0	Default Load

• Side loads are assumed to not induce cross-grain tension.

Member Notes

FRONT PORCH SIDE

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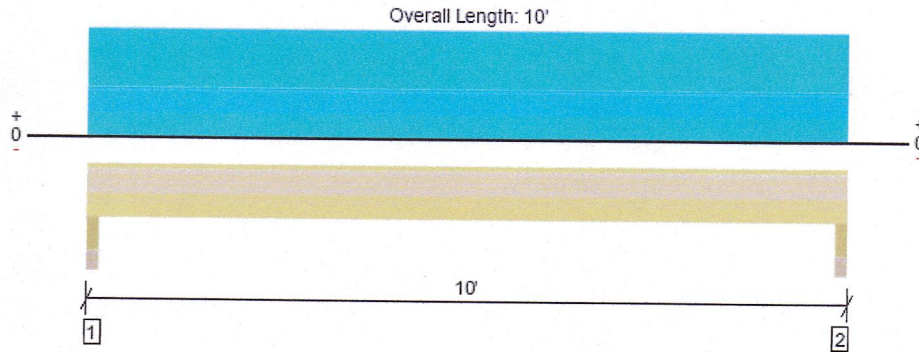
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chris claffey professional builds supply (910) 279-0610 chris.claffey@pb-supply.com	117 COLLINS RD., LILLINGTON, NC. DOWDY RESIDENCE



7/25/2025 1:39:15 PM UTC
ForteWEB v3.9, Engine: V8.4.3.94, Data: V8.1.7.3
File Name: MILTON ENTERPRISES

Level, Wall: 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)	4393 @ 1 1/2"	7613 (3.00")	Passed (58%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	3496 @ 1' 1/4"	7689	Passed (45%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	10440 @ 5'	14005	Passed (75%)	1.25	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.174 @ 5'	0.244	Passed (L/673)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.424 @ 5'	0.488	Passed (L/276)	--	1.0 D + 1.0 Lr (All Spans)

Member Length : 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	Roof Live	Factored	
1 - Trimmer - SPF	3.00"	3.00"	1.73"	2593	1800	4393	None
2 - Trimmer - SPF	3.00"	3.00"	1.73"	2593	1800	4393	None

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

•Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Tributary Width	Dead (0.90)	Roof Live (1.25)	Comments
0 - Self Weight (PLF)	0 to 10'	N/A	9.4	--	
1 - Uniform (PSF)	0 to 10'	18'	28.3	20.0	Default Load

Member Notes

FAMILY ROOM TRIPPLE WINDOW ✓

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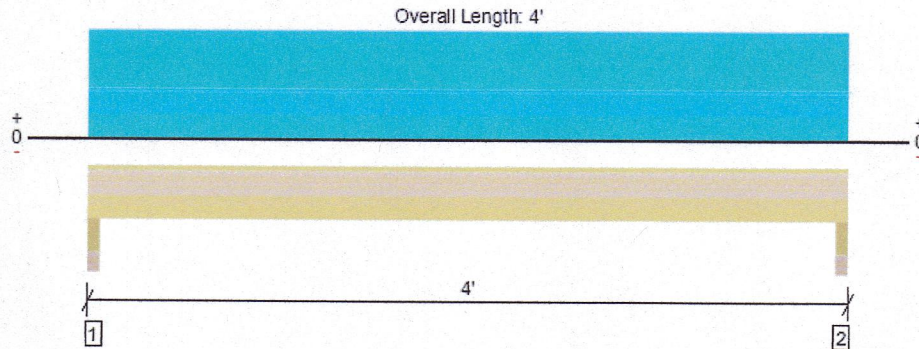
The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

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7/25/2025 1:45:30 PM UTC
ForteWEB v3.9, Engine: V8.4.3.94, Data: V8.1.7.3
File Name: MILTON ENTERPRISES

Level, Wall: Header
2 piece(s) 2 x 10 SP No.2



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)	1752 @ 1 1/2"	5085 (3.00")	Passed (34%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	858 @ 1' 1/4"	4047	Passed (21%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	1540 @ 2'	3566	Passed (43%)	1.25	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.006 @ 2'	0.094	Passed (L/999+)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.014 @ 2'	0.188	Passed (L/999+)	--	1.0 D + 1.0 Lr (All Spans)

Member Length : 4'
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.
- Applicable calculations are based on NDS.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Roof Live	Factored	
1 - Trimmer - SPF	3.00"	3.00"	1.50"	1032	720	1752	None
2 - Trimmer - SPF	3.00"	3.00"	1.50"	1032	720	1752	None

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

•Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Tributary Width	Dead (0.90)	Roof Live (1.25)	Comments
0 - Self Weight (PLF)	0 to 4'	N/A	7.0	--	
1 - Uniform (PSF)	0 to 4'	18'	28.3	20.0	Default Load

Member Notes

FRONT DOOR

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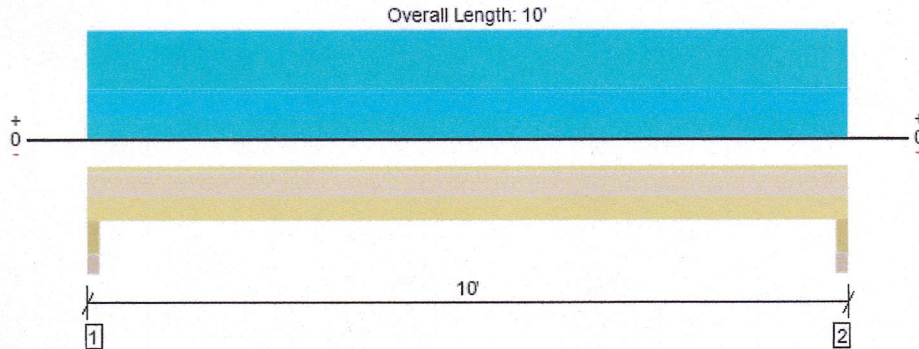
The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

ForteWEB Software Operator	Job Notes
chris claffey professional builds supply (910) 279-0610 chris.claffey@pb-supply.com	117 COLLINS RD., LILLINGTON, NC. DOWDY RESIDENCE



7/25/2025 1:47:54 PM UTC
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File Name: MILTON ENTERPRISES

Level, Wall: 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)	3547 @ 1 1/2"	7613 (3.00")	Passed (47%)	--	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Shear (lbs)	2266 @ 1' 1/4"	6151	Passed (37%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	6767 @ 5'	11204	Passed (60%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.203 @ 5'	0.244	Passed (L/577)	--	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Total Load Defl. (in)	0.342 @ 5'	0.488	Passed (L/342)	--	1.0 D + 0.75 L + 0.75 Lr (All Spans)

Member Length : 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	Roof Live	Factored	
1 - Trimmer - SPF	3.00"	3.00"	1.50"	1447	1400	1400	3547	None
2 - Trimmer - SPF	3.00"	3.00"	1.50"	1447	1400	1400	3547	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	10' o/c	
Bottom Edge (Lu)	10' 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)	Comments
0 - Self Weight (PLF)	0 to 10'	N/A	9.4	--	--	
1 - Uniform (PSF)	0 to 10'	14'	20.0	20.0	20.0	Default Load

Member Notes

FAMILY/ DINING CASSED OPENING ✓

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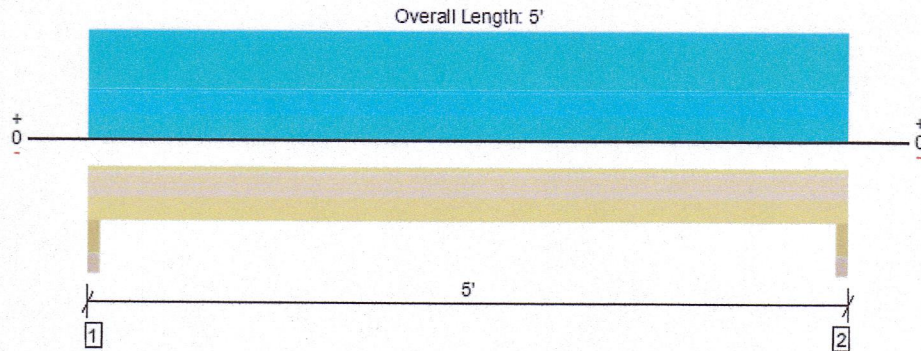
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chris claffey professional builds supply (910) 279-0610 chris.claffey@pb-supply.com	117 COLLINS RD., LILLINGTON, NC. DOWDY RESIDENCE



7/25/2025 1:50:35 PM UTC
ForteWEB v3.9, Engine: V8.4.3.94, Data: V8.1.7.3
File Name: MILTON ENTERPRISES

Level, Wall: 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)	4721 @ 1' 1/2"	7613 (3.00")	Passed (62%)	--	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Shear (lbs)	2793 @ 1' 1/4"	7689	Passed (36%)	1.25	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Moment (Ft-lbs)	5325 @ 2' 6"	14005	Passed (38%)	1.25	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Live Load Defl. (in)	0.042 @ 2' 6"	0.119	Passed (L/999+)	--	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Total Load Defl. (in)	0.066 @ 2' 6"	0.237	Passed (L/866)	--	1.0 D + 0.75 L + 0.75 Lr (All Spans)

Member Length : 5'
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	Factored	
1 - Trimmer - SPF	3.00"	3.00"	1.86"	1721	2000	2000	4721	None
2 - Trimmer - SPF	3.00"	3.00"	1.86"	1721	2000	2000	4721	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	5' o/c	
Bottom Edge (Lu)	5' 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)	Comments
0 - Self Weight (PLF)	0 to 5'	N/A	9.4	--	--	
1 - Uniform (PSF)	0 to 5'	40'	17.0	20.0	20.0	Default Load

Member Notes

DINING ROOM TWIN WINDOW ✓

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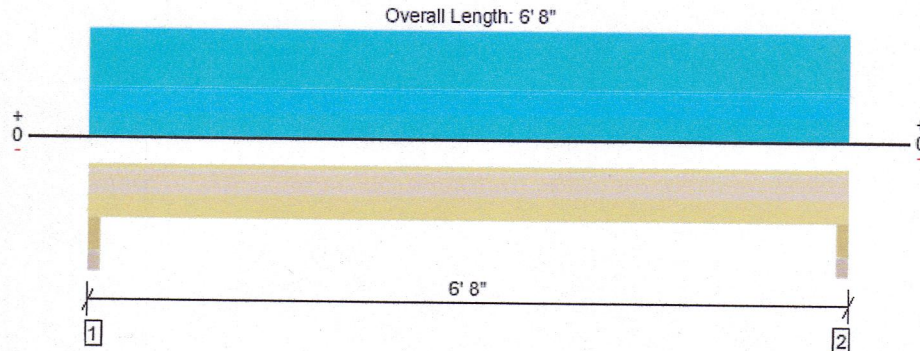
The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

ForteWEB Software Operator	Job Notes
chris claffey professional builds supply (910) 279-0610 chris.claffey@pb-supply.com	117 COLLINS RD., LILLINGTON, NC. DOWDY RESIDENCE



7/25/2025 1:52:50 PM UTC
ForteWEB v3.9, Engine: V8.4.3.94, Data: V8.1.7.3
File Name: MILTON ENTERPRISES

Level, Wall: Header
2 piece(s) 2 x 10 SP No.2



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)	357 @ 1' 1/2"	5085 (3.00")	Passed (7%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	201 @ 1' 1/4"	2914	Passed (7%)	0.90	1.0 D (All Spans)
Moment (Ft-lbs)	448 @ 3' 4"	2568	Passed (17%)	0.90	1.0 D (All Spans)
Live Load Defl. (in)	0.003 @ 3' 4"	0.160	Passed (L/999+)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.015 @ 3' 4"	0.321	Passed (L/999+)	--	1.0 D + 1.0 Lr (All Spans)

Member Length : 6' 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.
- Applicable calculations are based on NDS.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Roof Live	Factored	
1 - Trimmer - SPF	3.00"	3.00"	1.50"	290	67	357	None
2 - Trimmer - SPF	3.00"	3.00"	1.50"	290	67	357	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	6' 8" o/c	
Bottom Edge (Lu)	6' 8" o/c	

•Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Tributary Width	Dead (0.90)	Roof Live (1.25)	Comments
0 - Self Weight (PLF)	0 to 6' 8"	N/A	7.0	--	
1 - Uniform (PLF)	0 to 6' 8"	N/A	80.0	20.0	Default Load

Member Notes

FROND BEDROOM 1 GABLE VAULTED

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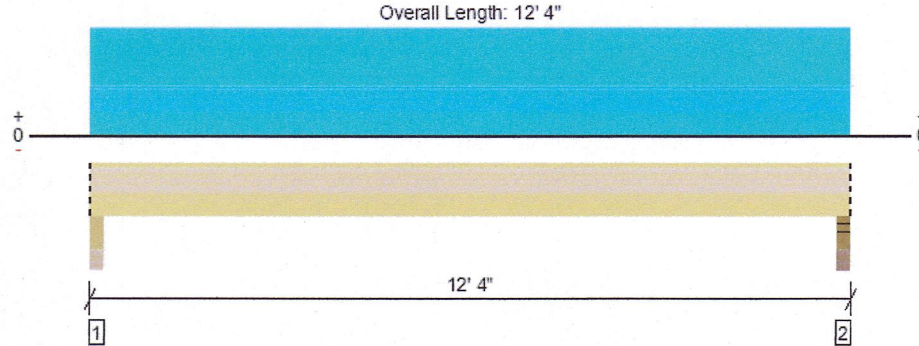
The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

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chris claffey professional builds supply (910) 279-0610 chris.claffey@pb-supply.com	117 COLLINS RD., LILLINGTON, NC. DOWDY RESIDENCE



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ForteWEB v3.9, Engine: V8.4.3.94, Data: V8.1.7.3
File Name: MILTON ENTERPRISES

Level, Roof: Drop Beam
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)	1837 @ 12' 2"	5206 (3.50")	Passed (35%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	1521 @ 1' 3/4"	7689	Passed (20%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	5363 @ 6' 2"	14005	Passed (38%)	1.25	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.150 @ 6' 2"	0.400	Passed (L/957)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.320 @ 6' 2"	0.600	Passed (L/450)	--	1.0 D + 1.0 Lr (All Spans)

Member Length : 12' 4"
System : Roof
Member Type : Drop Beam
Building Use : Residential
Building Code : IBC 2021
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	3.50"	3.50"	1.50"	974	863	1837	Blocking
2 - Stud wall - SPF	3.50"	3.50"	1.50"	974	863	1837	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)	12' 4" o/c	
Bottom Edge (Lu)	12' 4" o/c	

- Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Roof Live (1.25)	Comments
0 - Self Weight (PLF)	0 to 12' 4"	N/A	9.4	--	
1 - Uniform (PSF)	0 to 12' 4" (Front)	7'	21.2	20.0	Default Load

- Side loads are assumed to not induce cross-grain tension.

Member Notes

SCREEN PORCH HEADERS ✓

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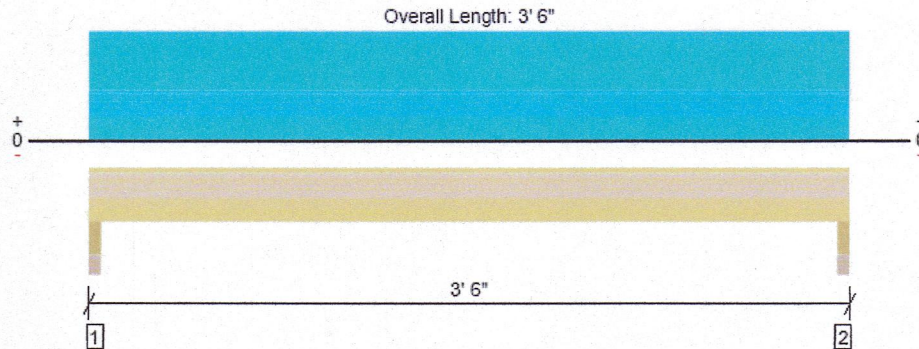
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File Name: MILTON ENTERPRISES

Level, Wall: Header
2 piece(s) 2 x 10 SP No.2



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)	1163 @ 1' 1/2"	5085 (3.00")	Passed (23%)	--	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Shear (lbs)	485 @ 1' 1/4"	4047	Passed (12%)	1.25	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Moment (Ft-lbs)	878 @ 1' 9"	3566	Passed (25%)	1.25	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Live Load Defl. (in)	0.004 @ 1' 9"	0.081	Passed (L/999+)	--	1.0 D + 0.75 L + 0.75 Lr (All Spans)
Total Load Defl. (in)	0.006 @ 1' 9"	0.162	Passed (L/999+)	--	1.0 D + 0.75 L + 0.75 Lr (All Spans)

Member Length : 3' 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.
- Applicable calculations are based on NDS.

Supports	Bearing Length			Loads to Supports (lbs)				Accessories
	Total	Available	Required	Dead	Floor Live	Roof Live	Factored	
1 - Trimmer - SPF	3.00"	3.00"	1.50"	428	490	490	1163	None
2 - Trimmer - SPF	3.00"	3.00"	1.50"	428	490	490	1163	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	3' 6" o/c	
Bottom Edge (Lu)	3' 6" 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)	Comments
0 - Self Weight (PLF)	0 to 3' 6"	N/A	7.0	--	--	
1 - Uniform (PSF)	0 to 3' 6"	14'	17.0	20.0	20.0	Default Load

Member Notes

STUDY DOOR, BED 2 DOOR, STUDY WINDOW

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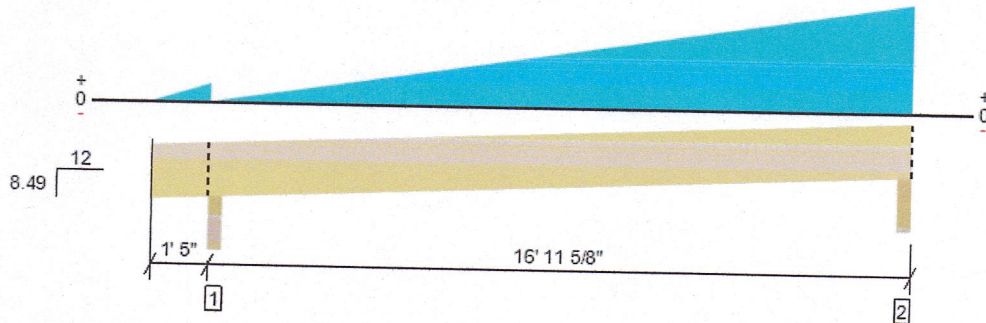
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File Name: MILTON ENTERPRISES

Level, Roof: Hip/Valley Beam
2 piece(s) 1 3/4" x 11 7/8" 2.0E Microllam® LVL

Sloped Length: 22' 6 1/4"



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)	2106 @ 18' 2 5/8"	5206 (3.50")	Passed (40%)	--	1.0 D + 1.0 Lr (Alt Spans)
Shear (lbs)	1719 @ 17' 3 7/16"	9871	Passed (17%)	1.25	1.0 D + 1.0 Lr (Alt Spans)
Moment (Ft-lbs)	6679 @ 11' 1"	22310	Passed (30%)	1.25	1.0 D + 1.0 Lr (Alt Spans)
Live Load Defl. (in)	0.234 @ 10' 2 3/8"	0.680	Passed (L/999+)	--	1.0 D + 1.0 Lr (Alt Spans)
Total Load Defl. (in)	0.520 @ 10' 2 1/8"	1.020	Passed (L/471)	--	1.0 D + 1.0 Lr (Alt Spans)

Member Length : 23' 2 5/8"
System : Roof
Member Type : Flush Beam
Building Use : Residential
Building Code : IBC 2021
Design Methodology : ASD
Member Pitch : 8.49/12

- Deflection criteria: LL (L/360) and TL (L/240).
- Overhang deflection criteria: LL (2L/360) and TL (2L/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 - Beveled Plate - SPF	3.50"	3.50"	1.50"	670	495	1166	Blocking
2 - Beveled Plate - SPF	3.50"	3.50"	1.50"	1141	965	2106	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)	22' 6" o/c	
Bottom Edge (Lu)	22' 6" o/c	

- Maximum allowable bracing intervals based on applied load.
- Dimensions for lateral bracing intervals are measured along the length of the member for sloped conditions.

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Roof Live (1.25)	Comments
0 - Self Weight (PLF)	0 to 18' 4 5/8"	N/A	12.1	--	
1 - Tapered (PLF)	0 to 1' 5"	N/A	0.0 to 24.5	0.0 to 28.3	Generated from Roof Geometry
2 - Tapered (PLF)	1' 5" to 18' 4 5/8"	N/A	0.0 to 145.9	0.0 to 169.7	Generated from Roof Geometry

- Side loads are assumed to not induce cross-grain tension.

Member Notes

12/12, 12/12, VALLEY BEAM

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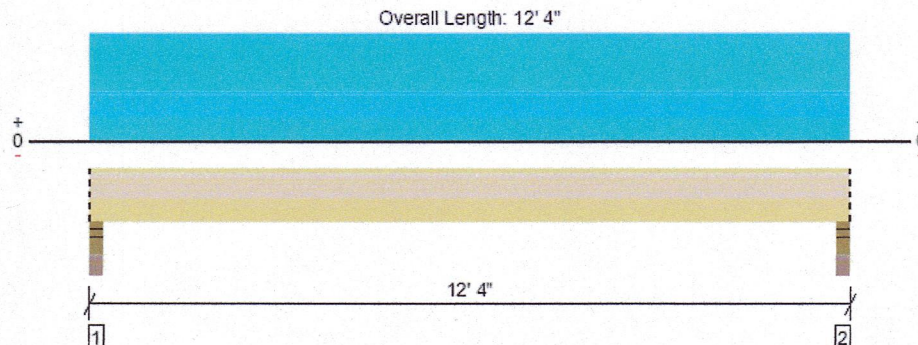
ForteWEB Software Operator	Job Notes
chris daffey professional builds supply (910) 279-0610 chris.daffey@pb-supply.com	117 COLLINS RD., LILLINGTON, NC. DOWDY RESIDENCE



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File Name: MILTON ENTERPRISES

Level, RIDGE BEAM

1 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)	2331 @ 2"	2603 (3.50")	Passed (90%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	1780 @ 1' 5 1/2"	5819	Passed (31%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	6805 @ 6' 2"	15161	Passed (45%)	1.25	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.120 @ 6' 2"	0.400	Passed (L/999+)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	0.252 @ 6' 2"	0.600	Passed (L/571)	--	1.0 D + 1.0 Lr (All Spans)

Member Length : 12' 4"
 System : Roof
 Member Type : Drop Beam
 Building Use : Residential
 Building Code : IBC 2021
 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"	3.13"	1221	1110	2331	Blocking
2 - Stud wall - SPF	3.50"	3.50"	3.13"	1221	1110	2331	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)	7' 1" o/c	
Bottom Edge (Lu)	12' 4" o/c	

• Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Roof Live (1.25)	Comments
0 - Self Weight (PLF)	0 to 12' 4"	N/A	7.2	--	
1 - Uniform (PSF)	0 to 12' 4" (Front)	9'	21.2	20.0	Default Load

• Side loads are assumed to not induce cross-grain tension.

Member Notes

BEDROOM 1 VAULTED RIDGE BEAM

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