FORTE® JOB SUMMARY REPORT

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 06/07/17

01: Level			
Member Name	**Results**	**Current Solution**	**Comments**
Roof: Drop Beam	Passed	2 Piece(s) 1 3/4" x 9 1/2" 2.0E Microllam® LVL	
entry door header	Passed	2 Piece(s) 2 x 10 Spruce-Pine-Fir No. 1 / No. 2	
Garage door header	Passed	2 Piece(s) 2 x 12 Spruce-Pine-Fir No. 1 / No. 2	

Forte Software Operator	Job Notes
Chris Burnett Hammond Lumber Company (207) 495-3303 cburnett@hammondlumber.com	Keller job 12 Loraine st Portland, Me

4/18/2017 10:50:51 AM
Forte v5.1, Design Engine: V6.5.1.1

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MEMBER REPORT *Level, Roof: Drop Beam*

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

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Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	3251 @ 0 2 0	5206 (3.50")	Passed (62%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	2709 @ 1 1 0	7265	Passed (37%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	10032 @ 6 6 0	13541	Passed (74%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.464 @ 6 6 0	0.633	Passed (L/328)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.614 @ 6 6 0	0.844	Passed (L/248)	--	1.0 D + 1.0 S (All Spans)

System : Roof
Member Type : Drop Beam
Building Use : Residential
Building Code : IBC 2009
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 12 1 4 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 - Stud wall - SPF	3.50"	3.50"	2.19"	794	2457	3251	Blocking
2 - Stud wall - SPF	3.50"	3.50"	2.19"	794	2457	3251	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 (Side)	Tributary Width	Dead (0.90)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 0 0 to 13 0 0	N/A	9.7		
1 - Uniform (PSF)	0 0 0 to 13 0 0 (Front)	7 6 0	15.0	50.4	Roof snow

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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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MEMBER REPORT *Level, entry door header*

2 piece(s) 2 x 10 Spruce-Pine-Fir No. 1 / No. 2

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Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	2642 @ 0 1 8	3825 (3.00")	Passed (69%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	2167 @ 1 0 4	2872	Passed (75%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	2870 @ 1 4 8	3946	Passed (73%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.013 @ 1 9 3	0.114	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.018 @ 1 9 3	0.171	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)

System : Wall
Member Type : Header
Building Use : Residential
Building Code : IBC 2009
Design Methodology : ASD

- Deflection criteria: LL (L/360) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 3 8 0 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 - Trimmer - SPF	3.00"	3.00"	2.07"	647	1995	2642	None
2 - Trimmer - SPF	3.00"	3.00"	1.50"	370	1121	1491	None

Loads	Location (Side)	Tributary Width	Dead (0.90)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 0 0 to 3 8 0	N/A	7.0		
1 - Uniform (PSF)	0 0 0 to 1 3 0	7 0 0	15.0	50.4	Roof snow
2 - Uniform (PSF)	1 6 0 to 3 8 0	2 0 0	15.0	50.4	Roof snow
3 - Point (lb)	1 4 8	N/A	794	2457	Linked from: Roof: Drop Beam, Support 2

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MEMBER REPORT *Level, Garage door header*

2 piece(s) 2 x 12 Spruce-Pine-Fir No. 1 / No. 2

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Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	592 @ 0 1 8	3825 (3.00")	Passed (15%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	427 @ 1 2 4	3493	Passed (12%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	1186 @ 4 3 0	5306	Passed (22%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.021 @ 4 3 0	0.275	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.029 @ 4 3 0	0.412	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)

System : Wall
Member Type : Header
Building Use : Residential
Building Code : IBC 2009
Design Methodology : ASD

- Deflection criteria: LL (L/360) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 8 6 0 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 - Trimmer - SPF	3.00"	3.00"	1.50"	164	428	592	None
2 - Trimmer - SPF	3.00"	3.00"	1.50"	164	428	592	None

Loads	Location (Side)	Tributary Width	Dead (0.90)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 0 0 to 8 6 0	N/A	8.6		
1 - Uniform (PSF)	0 0 0 to 8 6 0	2 0 0	15.0	50.4	Gable snow

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