FORTE®

MEMBER REPORT *Level, Roof: Drop Beam*

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

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 03/21/16

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)	2748 @ 0 1 8	3825 (3.00")	Passed (72%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	1937 @ 1 2 4	3493	Passed (55%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	5187 @ 4 0 4	5306	Passed (98%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.090 @ 4 0 4	0.260	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.114 @ 4 0 4	0.390	Passed (L/822)	--	1.0 D + 1.0 S (All Spans)

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

- Deflection criteria: LL (L/360) and TL (L/240).
- Bracing (Lu): All compression edges (top and bottom) must be braced at 2 6 3 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 Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Snow	Total	
1 - Column - SPF	3.00"	3.00"	2.16"	577	2171	2748	Blocking
2 - Stud wall - SPF	5.50"	5.50"	2.27"	607	2284	2891	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	Tributary Width	Dead (0.90)	Snow (1.15)	Comments
1 - Uniform (PSF)	0 0 0 to 8 3 0	9 0 0	15.0	60.0	Roof

Weyerhaeuser Notes

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

SUSTAINABLE FORESTRY INITIATIVE

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