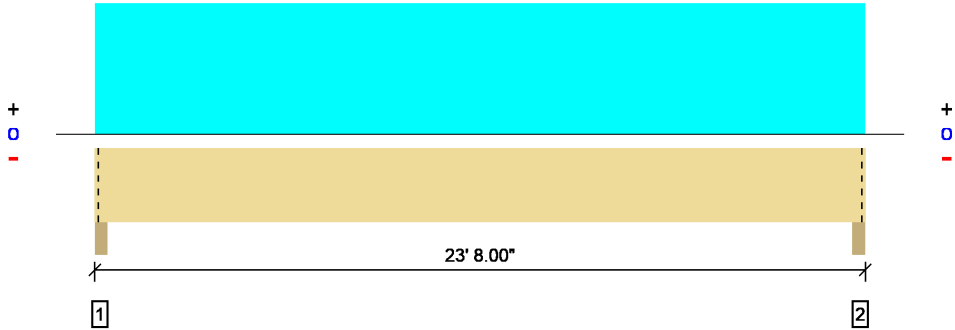


Overall Length: 23' 8.00"



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)	7366 @ 2.00"	13781 (3.50")	Passed (53%)	--	1.0 D + 1.0 Lr (All Spans)
Shear (lbs)	6355 @ 1' 7.50"	20300	Passed (31%)	1.25	1.0 D + 1.0 Lr (All Spans)
Moment (Ft-lbs)	42365 @ 11' 10.00"	65540	Passed (65%)	1.25	1.0 D + 1.0 Lr (All Spans)
Live Load Defl. (in)	0.588 @ 11' 10.00"	0.778	Passed (L/476)	--	1.0 D + 1.0 Lr (All Spans)
Total Load Defl. (in)	1.106 @ 11' 10.00"	1.167	Passed (L/253)	--	1.0 D + 1.0 Lr (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 23' 8.00" o/c unless detailed otherwise. Proper attachment and positioning of lateral bracing is required to achieve member stability.

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Roof Live	Total	
1 - Column - DF	3.50"	3.50"	1.87"	3446	3920	7366	Blocking
2 - Column - DF	3.50"	3.50"	1.87"	3446	3920	7366	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)	Roof Live (non-snow: 1.25)	Comments
1 - Uniform (PSF)	0 to 23' 8.00"	13' 3.00"	20.0	25.0	Roof Load (per information provided)

Member Notes
beam intended to replace existing interior bearing wall - option for replacement of existing 4" x 14" beam as well; removal of intermediate post such that the new beam is modeled as a simple span

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Forte Software Operator	Job Notes
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