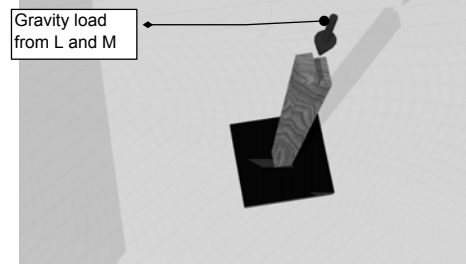


# Column, Post, Stud Calculator

**Assumptions:** 1) Top and bottom connections are considered 'pinned' (not 'fixed' or embedded). 2) Bearing area at top and bottom is not checked. 3) The column is assumed to be laterally supported at its top and bottom. 4) Loads include axial compression and / or uniform wind (bending). 5) Wet or extreme temperature use of the material is not considered. 6) Design based on 1997 National Design Specification for Wood Construction values and equations.



Job Name: Two story wood-framed example  
 Member I.D.: Post P  
 Other Info: Load from Beam L and M

## General Information

Column, Post, or Stud Length, ft. L = 11.00 ft  
 Max. Live Deflection L / 175 = 0.75 in  
 Type Of Column, Post, or Stud: Unbraced Column or Post  
 Load Duration Factor: Two Months (Snow)  
 Off-Center (Eccentric) Compression Loads or Add'l Bending Loads (other than wind)? No

## Applied Gravity Loads

	Live, psf	Dead, psf	x Length, ft	x Width, ft	Live Load	Dead Load	Total
Roof Loads (without snow)					0 lb	0 lb	0 lb
Roof Snow (only)			-	-	0 lb	0 lb	0 lb
Floor 3 Loads					0 lb	0 lb	0 lb
Floor 2 Loads					0 lb	0 lb	0 lb
Floor 1 Loads					0 lb	0 lb	0 lb
Area	289 psf	158 psf	6.50 ft	12.00 ft	289 lb	289 lb	546 lb
Area			1.00 ft	1.00 ft			158 lb
Descrip'n, opt'l:			From L and M		10,025 lb		6,603 lb
Total Live and Dead Loads:					10,314 lb	7,307 lb	
<b>Combined Total Load:</b>					<b>17,621 lb</b>		

## Wind Load

(Assumes external sheathing of plywood, metal, etc. is applied)  
 Wind Applied To: Narrow Face  
 Tributary Width of Wind Load, ft. z = -  
 Wind Pressure q = -

### 4x And Smaller (Lumber)

Lumber Material: Douglas Fir-Larch  
 Lumber Grade: No. 2

-
-
-
-

### 5x And Larger (Timbers)

Timber Material: Douglas Fir - Larch  
 Timber Grade: WCLIB - No. 2

-	12 x 12	-
6 x 10	14 x 14	-
8 x 8	16 x 16	-
10 x 10	-	-

### Glued Laminated Columns

Glulam Combo. 3 - DF (Visually Graded)

-	5.125 x 7.5
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### 1.8E Parallam PSL Columns

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