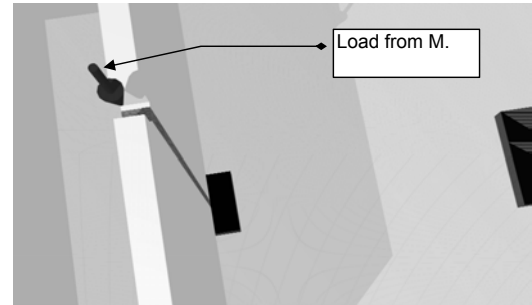


Column, Post, Stud Calculator

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 Q
Other Info	Load from Beam 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	Col Sheathed On Narrow Face (Preventing Weak Axis Buckling)	▼	
Load Duration Factor	Ten Years (Live)	▼	
Off-Center (Eccentric) Compression Loads or Add'l Bending Loads (other than wind)?	No	▼	

Applied Gravity Loads

Other point load: all Live, all Dead, or some of each, lbs.	Live, psf	Dead, psf	x Length, ft	x Width, ft	Live Load, lbs	Dead Load, lbs
			From M		2,135 lb	1,100 lb
Total Live and Dead Loads:					2,135 lb	1,100 lb
Combined Total Load:					3,235 lb	

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	▼
	2 x 6	
	(2) 2 x 5	
	3 x 5	
	4 x 5	

5x And Larger (Timbers)

Timber Material	Douglas Fir - Larch	▼
Timber Grade	WCLIB - No. 2	▼
	5 x 5	-
	6 x 6	-
	-	-
	-	-

Glued Laminated Columns

Glulam Combo. 3 - DF (Visually Graded) ▼

2.5 x 6	5.125 x 6
3 x 6	6.75 x 7.5

1.8E Parallam PSL Columns

3-1/2" x 3-1/2"	5-1/4" x 5-1/4"
3-1/2" x 5-1/4"	5-1/4" x 7"