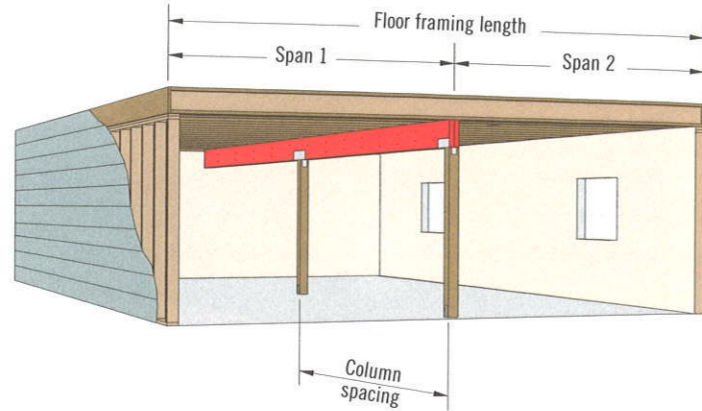


How to Use This Table

1. Determine appropriate Floor Load.
2. Find the Floor Framing Length that meets or exceeds the sum of Spans 1 and 2 for the supported floor joists. When floor joists are continuous span, Span 1 or 2 cannot be less than 40% of the Floor Framing Length. If floor joists are simple span (not continuous over the beam), then the Floor Framing Length may be taken as 80% of Span 1 plus Span 2.
3. Locate Column Spacing.
4. Select beam size and material.

Also see General Notes on page 15.



Floor Beams

Floor Load (PSF)	Floor Framing Length	Column Spacing																							
		8'			10'			12'			14'			16'											
40LL + 12DL	24'	3 1/2" x 9 1/4"	T	M	P	3 1/2" x 9 1/2"	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	
		5 1/4" x 9 1/4"	T	M	P	5 1/4" x 9 1/2"	T	M	P	5 1/4" x 11 1/4"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 16"	T	M	P
		3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P
	28'	3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P
		5 1/4" x 9 1/4"	T	M	P	5 1/4" x 9 1/2"	T	M	P	5 1/4" x 11 1/4"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 16"	T	M	P
		3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P
	30'	3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P
		5 1/4" x 9 1/4"	T	M	P	5 1/4" x 9 1/2"	T	M	P	5 1/4" x 11 1/4"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 16"	T	M	P
		3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P
	32'	3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P
		5 1/4" x 9 1/4"	T	M	P	5 1/4" x 9 1/2"	T	M	P	5 1/4" x 11 1/4"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 16"	T	M	P
		3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P
34'	3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P	
	5 1/4" x 9 1/4"	T	M	P	5 1/4" x 9 1/2"	T	M	P	5 1/4" x 11 1/4"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 16"	T	M	P	
	3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P	
36'	3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P	
	5 1/4" x 9 1/4"	T	M	P	5 1/4" x 9 1/2"	T	M	P	5 1/4" x 11 1/4"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 16"	T	M	P	
	3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P	
40'	3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P	
	5 1/4" x 9 1/4"	T	M	P	5 1/4" x 9 1/2"	T	M	P	5 1/4" x 11 1/4"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 16"	T	M	P	
	3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P	
40LL + 20DL	24'	3 1/2" x 9 1/4"	T	M	P	3 1/2" x 9 1/2"	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	
		5 1/4" x 9 1/4"	T	M	P	5 1/4" x 9 1/2"	T	M	P	5 1/4" x 11 1/4"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 16"	T	M	P
		3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P
	28'	3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P
		5 1/4" x 9 1/4"	T	M	P	5 1/4" x 9 1/2"	T	M	P	5 1/4" x 11 1/4"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 16"	T	M	P
		3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P
	30'	3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P
		5 1/4" x 9 1/4"	T	M	P	5 1/4" x 9 1/2"	T	M	P	5 1/4" x 11 1/4"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 16"	T	M	P
		3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P
	32'	3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P
		5 1/4" x 9 1/4"	T	M	P	5 1/4" x 9 1/2"	T	M	P	5 1/4" x 11 1/4"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 16"	T	M	P
		3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P
34'	3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P	
	5 1/4" x 9 1/4"	T	M	P	5 1/4" x 9 1/2"	T	M	P	5 1/4" x 11 1/4"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 16"	T	M	P	
	3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P	
36'	3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P	
	5 1/4" x 9 1/4"	T	M	P	5 1/4" x 9 1/2"	T	M	P	5 1/4" x 11 1/4"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 16"	T	M	P	
	3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P	
40'	3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P	
	5 1/4" x 9 1/4"	T	M	P	5 1/4" x 9 1/2"	T	M	P	5 1/4" x 11 1/4"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 14"	T	M	P	5 1/4" x 16"	T	M	P	
	3 1/2" x 9 1/4"	T	M	P	3 1/2" x 11 1/4"	T	M	P	3 1/2" x 11 1/8"	T	M	P	3 1/2" x 14"	T	M	P	3 1/2" x 16"	T	M	P	3 1/2" x 16"	T	M	P	

T 1.55E TimberStrand® LSL    M 1.9E Microllam® LVL    P 2.0E Parallam® PSL

General Notes

- Table is based on:
  - Uniform loads.
  - More restrictive of simple or continuous beam span. Ratio of short span to long span should be greater than 0.4 to prevent uplift.
  - Deflection criteria of L/360 live load and L/240 total load.

Also see How to Use This Table on page 14 and General Assumptions on page 5.

Bearing Requirements

Minimum beam supports to be two trimmers (3") at each end and 7 1/2" at continuous-span supports.

(3) Requires three trimmers (4 1/2") at each end and 11 1/4" at continuous-span supports.

Floor Beams continued

Floor Load (PSF)	Floor Framing Length	Column Spacing															
		18'			20'			22'			24'						
40LL + 12DL	24'	3 1/2" x 18"	T	M	P	3 1/2" x 18"	T	M	P	3 1/2" x 20" <sup>(3)</sup>	T	M	P	5 1/4" x 20"	T	M	P
		5 1/4" x 18"	T	M	P	5 1/4" x 18"	T	M	P	5 1/4" x 20"	T	M	P	7" x 18"	T	M	P
		5 1/4" x 16"	T	M	P	5 1/4" x 16"	T	M	P	7" x 16"	T	M	P	7" x 16"	T	M	P
	28'	3 1/2" x 18"	T	M	P	3 1/2" x 18"	T	M	P	3 1/2" x 20" <sup>(3)</sup>	T	M	P	5 1/4" x 20"	T	M	P
		5 1/4" x 18"	T	M	P	5 1/4" x 18"	T	M	P	5 1/4" x 20"	T	M	P	7" x 18"	T	M	P
		5 1/4" x 16"	T	M	P	5 1/4" x 16"	T	M	P	7" x 16"	T	M	P	7" x 16"	T	M	P
	30'	3 1/2" x 18"	T	M	P	3 1/2" x 18"	T	M	P	3 1/2" x 20" <sup>(3)</sup>	T	M	P	5 1/4" x 20"	T	M	P
		5 1/4" x 18"	T	M	P	5 1/4" x 18"	T	M	P	5 1/4" x 20"	T	M	P	7" x 18"	T	M	P
		5 1/4" x 16"	T	M	P	5 1/4" x 16"	T	M	P	7" x 16"	T	M	P	7" x 16"	T	M	P
	32'	3 1/2" x 18"	T	M	P	3 1/2" x 18"	T	M	P	3 1/2" x 20" <sup>(3)</sup>	T	M	P	5 1/4" x 20"	T	M	P
		5 1/4" x 18"	T	M	P	5 1/4" x 18"	T	M	P	5 1/4" x 20"	T	M	P	7" x 18"	T	M	P
		5 1/4" x 16"	T	M	P	5 1/4" x 16"	T	M	P	7" x 16"	T	M	P	7" x 16"	T	M	P
34'	3 1/2" x 18"	T	M	P	3 1/2" x 18"	T	M	P	3 1/2" x 20" <sup>(3)</sup>	T	M	P	5 1/4" x 20"	T	M	P	
	5 1/4" x 18"	T	M	P	5 1/4" x 18"	T	M	P	5 1/4" x 20"	T	M	P	7" x 18"	T	M	P	
	5 1/4" x 16"	T	M	P	5 1/4" x 16"	T	M	P	7" x 16"	T	M	P	7" x 16"	T	M	P	
36'	3 1/2" x 18"	T	M	P	3 1/2" x 18"	T	M	P	3 1/2" x 20" <sup>(3)</sup>	T	M	P	5 1/4" x 20"	T	M	P	
	5 1/4" x 18"	T	M	P	5 1/4" x 18"	T	M	P	5 1								