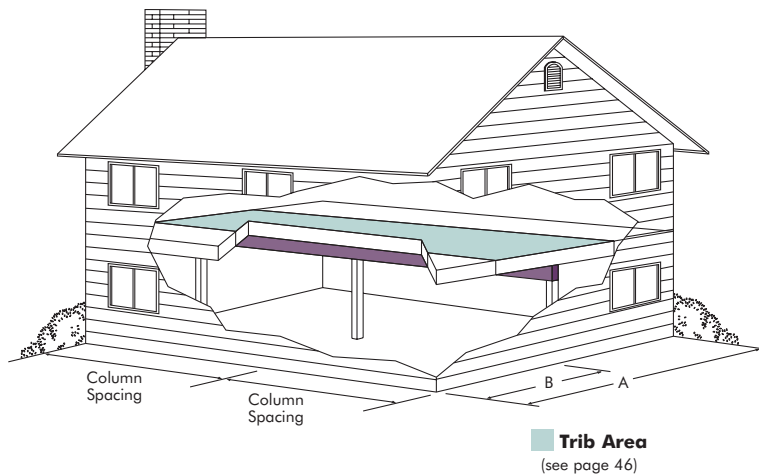


FLOOR BEAMS

The table below shows the size of the beams needed to support various floor systems. The table is valid for loads of one floor only, i.e., a second story floor or one story floor over a basement.

When floor joists span continuously from wall to wall (not cut at beam) this table requires that "B" be not less than 45%, or greater than 55% of "A".



Trib Area
(see page 46)

COLUMN SPACING – CENTER TO CENTER – 1.8E RIGIDLAM LVL

Width of Building (ft)	Beam Support Spacing (ft)									
	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'
24'	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"
	3 - 9 1/2"	3 - 11 7/8"	3 - 11 7/8"	3 - 11 7/8"	3 - 11 7/8"	3 - 14"	3 - 14"	3 - 14"	3 - 16"	3 - 18"
28'	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"
	3 - 9 1/2"	3 - 11 7/8"	3 - 11 7/8"	3 - 11 7/8"	3 - 11 7/8"	3 - 14"	3 - 14"	3 - 14"	3 - 16"	3 - 18"
32'	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"
	3 - 9 1/2"	3 - 11 7/8"	3 - 11 7/8"	3 - 11 7/8"	3 - 14"	3 - 14"	3 - 14"	3 - 16"	3 - 18"	3 - 18"
36'	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"
	3 - 9 1/2"	3 - 11 7/8"	3 - 11 7/8"	3 - 11 7/8"	3 - 14"	3 - 14"	3 - 14"	3 - 16"	3 - 18"	3 - 18"
40'	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"
	3 - 9 1/2"	3 - 11 7/8"	3 - 11 7/8"	3 - 11 7/8"	3 - 14"	3 - 14"	3 - 14"	3 - 16"	3 - 18"	3 - 18"

COLUMN SPACING – CENTER TO CENTER – 2.0E RIGIDLAM LVL

Width of Building (ft)	Beam Support Spacing (ft)									
	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'
24'	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"
	3 - 9 1/2"	3 - 9 1/2"	3 - 11 7/8"	3 - 11 7/8"	3 - 11 7/8"	3 - 14"	3 - 14"	3 - 14"	3 - 16"	3 - 16"
28'	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"
	3 - 9 1/2"	3 - 11 7/8"	3 - 11 7/8"	3 - 11 7/8"	3 - 14"	3 - 14"	3 - 14"	3 - 16"	3 - 16"	3 - 18"
32'	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"
	3 - 9 1/2"	3 - 11 7/8"	3 - 11 7/8"	3 - 11 7/8"	3 - 14"	3 - 14"	3 - 14"	3 - 16"	3 - 16"	3 - 18"
36'	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"
	3 - 9 1/2"	3 - 11 7/8"	3 - 11 7/8"	3 - 11 7/8"	3 - 14"	3 - 14"	3 - 14"	3 - 16"	3 - 16"	3 - 18"
40'	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"
	3 - 9 1/2"	3 - 11 7/8"	3 - 11 7/8"	3 - 11 7/8"	3 - 14"	3 - 14"	3 - 14"	3 - 16"	3 - 16"	3 - 18"
44'	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"	2 - 1 1/8"
	3 - 9 1/2"	3 - 11 7/8"	3 - 11 7/8"	3 - 11 7/8"	3 - 14"	3 - 14"	3 - 14"	3 - 16"	3 - 16"	3 - 18"

+ see note 3

Notes:

- Beam sizes are listed as the number of 1 3/4" thick pieces by the beam depth. e.g. 2 - 9 1/2" indicates two 1 3/4" pieces by 9 1/2" deep.
- Beam sizes are based on continuous floor joist spans and simple or continuous beam spans. If the floor joists are not continuous, it is permissible to consider a Total Floor Joist Span "A" that is equal to 0.8 times the actual "A" dimension.
- The minimum required end and intermediate bearing lengths (based on 700 psi) are 3" and 7 1/2" respectively unless the + symbol is shown. In that case, 4 1/2" and 10 1/2" end and intermediate bearing lengths are required.
- All beams require support across their full width.
- Beam sizes are based on residential floor loading of 40 psf live load and 10 psf dead load. The roof framing must be trusses supported at the exterior walls only.
- Deflection is limited to L/360 at live load and L/240 at total load.