

Span Chart

FLOOR BEAM SPAN CHART FOR SINGLE SPAN SIMPLE BEAMS,
LOADS IN POUNDS PER LINEAL FOOT (PLF).

Total Load (plf)	125			250			375		
Live Load (plf)	100			200			300		
Dead Load (plf)	25			50			75		
Species	Redwood No. 2 OG	Douglas-fir No. 1	Douglas-fir No. 2	Redwood No. 2 OG	Douglas-fir No. 1	Douglas-fir No. 2	Redwood No. 2 OG	Douglas-fir No. 1	Douglas-fir No. 2
3x6	8' 0"	9' 4"	8' 10"	5' 8"	6' 7"	6' 3"	4' 7"	5' 5"	5' 1"
3x8	10' 1"	11' 10"	11' 3"	7' 2"	8' 4"	7' 11"	5' 10"	6' 10"	6' 6"
3x10	12' 4"	14' 6"	13' 9"	8' 8"	10' 3"	9' 8"	7' 1"	8' 4"	7' 11"
3x12	14' 3"	16' 9"	15' 11"	10' 1"	11' 10"	11' 3"	8' 3"	9' 8"	9' 2"
4x6	8' 11"	10' 8"	10' 5"	6' 8"	7' 9"	7' 5"	5' 5"	6' 4"	6' 0"
4x8	11' 10"	14' 1"	13' 9"	8' 9"	10' 3"	9' 9"	7' 2"	8' 6"	7' 11"
4x10	15' 1"	17' 10"	16' 11"	10' 19"	12' 7"	11' 11"	8' 9"	10' 3"	9' 9"
4x12	17' 9"	20' 9"	19' 8"	12' 6"	14' 8"	13' 11"	10' 3"	12' 0"	11' 4"
6x6	10' 6"	12' 2"	10' 6"	7' 5"	9' 5"	7' 5"	6' 0"	7' 8"	6' 0"
6x8	14' 4"	16' 7"	14' 4"	10' 1"	12' 10"	10' 1"	8' 3"	10' 5"	8' 3"
6x10	18' 2"	21' 0"	19' 7"	12' 10"	16' 8"	13' 10"	10' 5"	14' 1"	11' 4"
6x12	22' 0"	25' 5"	23' 9"	15' 6"	20' 2"	16' 9"	12' 8"	17' 0"	13' 8"
8x8	16' 1"	18' 5"	16' 9"	11' 10"	14' 7"	11' 10"	9' 8"	12' 2"	9' 8"
8x10	20' 5"	23' 3"	21' 2"	15' 0"	18' 6"	15' 0"	12' 3"	15' 6"	12' 3"
8x12	24' 9"	28' 2"	26' 4"	18' 2"	22' 5"	19' 7"	14' 10"	19' 7"	16' 0"

Notes:

1. Moisture content of 19% or less in service.
2. Deflection limits of 360/live load.
3. Floor live load (DOL = 1.0).
4. Compression edge braced laterally.

Contact:

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