

**REDWOOD**  
Technical Data Sheet

# 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	Douglas-fir No. 1	Douglas-fir No. 2	Redwood No. 2	Douglas-fir No. 1	Douglas-fir No. 2	Redwood No. 2	Douglas-fir No. 1	Douglas-fir No. 2
3 x 6	8' 0"	9' 4"	8' 10"	5' 8"	6' 7"	6' 3"	4' 7"	5' 5"	5' 1"
3 x 8	10' 1"	11' 10"	11' 3"	7' 2"	8' 4"	7' 11"	5' 10"	6' 10"	6' 6"
3 x 10	12' 4"	14' 6"	13' 9"	8' 8"	10' 3"	9' 8"	7' 1"	8' 4"	7' 11"
3 x 12	14' 3"	16' 9"	15' 11"	10' 1"	11' 10"	11' 3"	8' 3"	9' 8"	9' 2"
4 x 6	8' 11"	10' 8"	10' 5"	6' 8"	7' 9"	7' 5"	5' 5"	6' 4"	6' 0"
4 x 8	11' 10"	14' 1"	13' 9"	8' 9"	10' 3"	9' 9"	7' 2"	8' 5"	7' 11"
4 x 10	15' 1"	17' 10"	16' 11"	10' 9"	12' 7"	11' 11"	8' 9"	10' 3"	9' 9"
4 x 12	17' 9"	20' 9"	19' 8"	12' 6"	14' 8"	13' 11"	10' 3"	12' 0"	11' 4"
6 x 6	10' 0"	12' 2"	10' 6"	7' 5"	9' 5"	7' 5"	6' 0"	7' 8"	6' 0"
6 x 8	13' 8"	16' 7"	14' 4"	10' 1"	12' 10"	10' 1"	8' 3"	10' 5"	8' 3"
6 x 10	17' 4"	21' 0"	19' 7"	12' 10"	16' 8"	13' 10"	10' 5"	14' 1"	11' 4"
6 x 12	21' 0"	25' 5"	23' 9"	15' 6"	20' 2"	16' 9"	12' 8"	17' 0"	13' 8"
8 x 8	15' 2"	18' 5"	16' 9"	11' 10"	14' 7"	11' 10"	9' 8"	12' 2"	9' 8"
8 x 10	19' 3"	23' 3"	21' 2"	15' 0"	18' 6"	15' 0"	12' 3"	15' 6"	12' 3"
8 x 12	23' 3"	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.

