

# ALLOWABLE SPANS

Recorded in Book 507 at Page 163 in Murray County, Oklahoma

	SPF #2			HEM-FIR #2			Southern Pine #2		
2 x 5 & Wider	1000fb, 1.3 m of e			1150fb, 1.4 m of e			1400fb, 1.6 m of e		
2 x 4	1150fb, 1.3 m of e			1350fb, 1.4 m of e			1650fb, 1.6 m of e		
Centers	12"	16"	24"	12"	16"	24"	12"	16"	24"
Floor Joist, 40 lb per sq. Live Load									
2 x 6	10' 0"	8' 7"	7' 0"	10' 3"	9' 4"	7' 6"	10' 9"	9' 9"	8' 4"
2 x 8	13' 2"	11' 4"	9' 3"	13' 6"	12' 3"	9' 11"	14' 2"	12' 10"	11' 0"
2 x 10	16' 10"	14' 6"	11' 10"	17' 3"	15' 8"	12' 8"	18' 0"	16' 5"	14' 0"
2 x 12	20' 6"	17' 7"	14' 4"	21' 0"	19' 1"	15' 4"	21' 11"	19' 11"	17' 0"
Ceiling Joist Gyp Ceiling, 10# Live Load									
2 x 4	11' 7"	10' 6"	8' 8"	11' 10"	10' 9"	9' 5"	12' 5"	11' 3"	9' 10"
2 x 6	18' 2"	15' 7"	12' 9"	18' 8"	16' 11"	13' 8"	19' 6"	17' 8"	15' 2"
2 x 8	24' 0"	20' 7"	16' 10"	24' 7"	22' 4"	18' 0"	25' 8"	23' 4"	19' 11"
2 x 10	30' 7"	26' 3"	21' 6"	31' 4"	28' 6"	22' 11"	32' 9"	29' 9"	25' 5"
Rafters 30 lbs. per sq. ft. Live Load									
Low or High Slope - Supporting Drywall									
2 x 6	10' 7"	9' 2"	7' 6"	11' 1"	9' 7"	7' 10"	12' 6"	10' 10"	8' 10"
2 x 8	13' 11"	12' 1"	9' 10"	14' 8"	12' 8"	10' 4"	16' 6"	14' 4"	11' 8"
2 x 10	17' 10"	15' 5"	12' 7"	18' 8"	16' 2"	13' 2"	21' 1"	18' 3"	14' 11"
2 x 12	21' 8"	18' 9"	15' 4"	22' 8"	19' 8"	16' 1"	25' 7"	22' 2"	18' 1"
Low Slope - No Finish Ceiling 3" in 12" or less									
2 x 6	11' 3"	9' 9"	7' 11"	11' 9"	10' 2"	8' 4"	13' 3"	11' 6"	9' 5"
2 x 8	14' 10"	12' 10"	10' 6"	15' 6"	13' 5"	11' 0"	17' 6"	15' 2"	12' 5"
2 x 10	18' 11"	16' 4"	13' 4"	19' 10"	17' 2"	14' 0"	22' 4"	19' 4"	15' 10"
2 x 12	23' 0"	19' 11"	16' 3"	24' 1"	20' 10"	17' 0"	27' 2"	23' 6"	19' 3"
High Slope over 3" in 12" Heavy Roof Covering									
2 x 4	7' 1"	6' 1"	5' 0"	7' 8"	6' 8"	5' 5"	8' 6"	7' 5"	6' 0"
2 x 6	10' 7"	9' 2"	7' 6"	11' 1"	9' 7"	7' 10"	12' 6"	10' 10"	8' 10"
2 x 8	13' 11"	12' 1"	9' 10"	14' 8"	12' 8"	10' 4"	16' 6"	14' 4"	11' 8"
2 x 10	17' 10"	15' 5"	12' 7"	18' 8"	16' 2"	13' 2"	21' 1"	18' 3"	14' 11"
High Slope Over 3" in 12" Light Roof Covering									
2 x 4	7' 9"	6' 9"	5' 6"	8' 6"	7' 4"	6' 0"	9' 5"	8' 2"	6' 8"
2 x 6	11' 8"	10' 1"	8' 3"	12' 3"	10' 7"	8' 8"	13' 10"	12' 0"	9' 9"
2 x 8	15' 5"	13' 4"	10' 11"	16' 2"	14' 0"	11' 5"	18' 2"	15' 9"	12' 10"
2 x 10	19' 8"	17' 0"	13' 11"	20' 7"	17' 10"	14' 7"	23' 3"	20' 1"	16' 5"

The above charts are compiled from the CABO One- and Two-Family Dwelling Code, 1986 Edition

These "fb" values are for use where repetitive members are spaced not more than 24 inches.

Values are for surfaced dry or surfaced green lumber apply at 19 percent maximum moisture content in use.