



Maximum Rafter Span Chart

Rafter Span Tables

Use these two tables for roof rafters with a slope of 3" in 12" or less.

Nominal Size	Spaced (o.c.)	Species / Grade (20# Live Load - No Finished Ceiling)			
		S. Pine	S. Pine	Doug. Fir	E. Spruce
		#1 (kiln)	#2 grade	#2 grade	Structural
2" x 6"	12	16-5	14-2	15-4	14-4
	16	14-8	12-4	13-3	12-10
	24	12-8	10-0	10-10	10-5
2" x 8"	12	21-7	18-9	20-3	19-4
	16	19-6	16-3	17-6	16-10
	24	16-8	13-3	14-4	13-9
2" x 10"	12	27-6	23-11	25-10	24-6
	16	24-8	20-8	22-4	21-6
	24	21-3	16-11	18-3	17-7
2" x 12"	12	33-5	29-1	31-4	30-0
	16	30-0	25-2	27-2	26-2
	24	25-10	20-6	22-2	21-5



Maximum Rafter Span Chart

Nominal Size	Spaced (o.c.)	Species / Grade (40# Live Load - No Finished Ceiling)			
		S. Pine	S. Pine	Doug. Fir	E. Spruce
		#1 (kiln)	#2 grade	#2 grade	Structural
2" x 6"	12	13-0	11-0	11-11	11-5
	16	11-9	9-6	10-3	9-11
	24	9-9	7-9	8-5	8-1
2" x 8"	12	17-2	14-6	15-8	15-1
	16	15-6	12-7	13-7	13-1
	24	12-11	10-3	11-1	10-8
2" x 10"	12	21-10	18-6	20-0	19-3
	16	20-0	16-0	17-4	16-8
	24	16-6	13-1	14-2	13-7
2" x 12"	12	26-6	22-6	24-4	23-5
	16	24-4	19-6	21-1	20-3
	24	20-0	15-11	17-2	16-7



Maximum Rafter Span Chart

Use these two tables for roof rafters with a slope greater than 3" in 12".

Nominal Size	Spaced (o.c.)	Species / Grade (20# Live Load - Light Roofing)			
		S. Pine	S. Pine	Doug. Fir	E. Spruce
		#1 (kiln)	#2 grade	#2 grade	Structural
2" x 4"	12	11-6	10-3	11-0	9-11
	16	10-5	9-1	9-6	8-7
	24	8-6	7-4	7-9	7-0
2" x 6"	12	18-1	15-0	16-2	15-7
	16	16-4	13-0	14-0	13-6
	24	13-4	10-7	11-5	11-0
2" x 8"	12	23-8	19-9	21-4	20-6
	16	21-6	17-1	18-5	17-9
	24	17-7	13-11	15-1	14-6
2" x 10"	12	30-3	25-2	27-2	26-2
	16	27-5	21-10	23-7	22-8
	24	22-5	17-10	19-3	18-6



Maximum Rafter Span Chart

Nominal Size	Spaced (o.c.)	Species / Grade (40# Live Load - Heavy Roofing)			
		S. Pine	S. Pine	Doug. Fir	E. Spruce
		#1 (kiln)	#2 grade	#2 grade	Structural
2" x 4"	12	8-5	7-4	7-8	6-11
	16	7-3	6-4	6-8	6-0
	24	5-11	5-2	5-5	4-11
2" x 6"	12	13-2	10-6	11-4	10-11
	16	11-5	9-1	9-10	9-5
	24	9-4	7-5	8-0	7-9
2" x 8"	12	17-5	13-10	14-11	14-5
	16	15-1	12-0	12-11	12-6
	24	12-4	9-9	10-7	10-2
2" x 10"	12	22-2	17-8	19-1	18-4
	16	19-3	15-3	16-6	15-11
	24	15-8	12-6	13-6	13-0