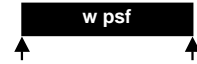


**ALLOWABLE SPANS FOR PATIO RAFTERS**  
California Building Code 2007 Edition (CBC), NDS 2005

**ROOFING:** Composition Shingle, Metal, Wood Shakes or Shingles, not supporting ceiling finish.

**LUMBER:** Douglas Fir-Larch Surfaced Dry Condition (Moisture Content 19%)

**DESIGN CRITERIA:** 10# LL + 10# DL = 20# TL per sq. ft. Maximum Deflection L/180 on Live Load.  
15% Repetitive member factor, included where applicable, and  
25% Duration load adjustment applied.

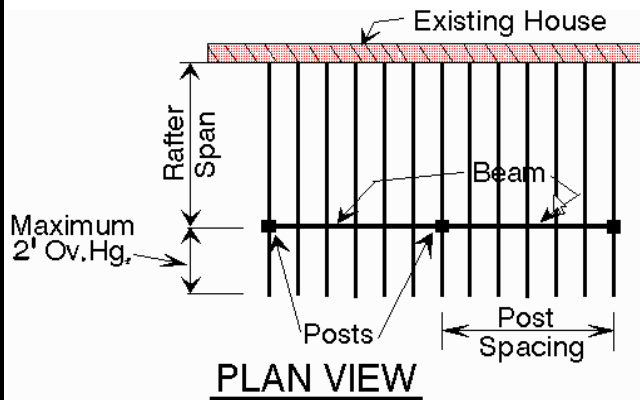


SIZE W x D	GRADE	RAFTER SPACING IN INCHES					
		12	16	24	32	42	48
2 x 4	SS	14-3	13-0	11-3	10-3	9-6	9-0
	#1+	14-0	12-9	11-3	9-9	8-6	8-0
	#1	13-9	12-6	10-3	9-0	7-9	7-3
	#2	13-6	12-0	9-9	8-6	7-6	7-0
2 x 6	SS	22-6	20-6	18-0	16-3	14-0	13-3
	#1+	22-3	20-3	16-9	14-6	12-6	11-9
	#1	21-6	18-9	15-3	13-3	11-6	10-9
	#2	20-6	17-9	14-6	12-6	11-0	10-3
2 x 8	SS	29-9	27-0	23-9	20-6	17-9	16-9
	#1+	29-3	26-0	21-3	18-3	16-0	15-0
	#1	27-3	23-9	19-3	16-9	14-6	13-6
	#2	26-0	22-6	18-3	15-9	13-9	13-0
2 x 10	SS		34-6	29-0	25-0	21-9	20-6
	#1+		31-9	26-0	22-6	19-6	18-3
	#1		29-0	23-6	20-6	17-9	16-9
	#2		27-6	22-6	19-6	17-0	15-9
2 x 12	SS			33-6	29-0	25-3	23-9
	#1+			30-0	26-0	22-9	21-3
	#1			27-6	23-9	20-9	19-3

SIZE W x D	GRADE	RAFTER SPACING IN INCHES				
		32	42	48	60	72
4 x 4	SS	13-9	12-6	12-0	11-0	10-6
	#1+	13-6	12-3	11-9	11-0	10-0
	#1	13-3	12-0	11-3	10-0	9-3
	#2	13-0	11-3	10-6	9-6	8-9
4 x 6	SS	21-6	19-9	18-9	17-6	16-6
	#1+	21-3	19-3	18-0	16-0	14-9
	#1	20-3	17-6	16-6	14-9	13-6
4 x 8	SS	28-6	26-0	25-0	23-0	21-9
	#1+	28-0	25-6	23-9	21-3	19-6
	#1	26-9	23-3	21-9	19-6	17-9
4 x 10	SS		33-3	31-9	29-3	26-9
	#1+		31-3	29-3	26-0	23-9
	#1		28-6	26-9	23-9	21-9

SIZE W x D	GRADE	RAFTER SPACING IN INCHES			
		48	60	72	96
6 x 6	SS	20-9	19-3	18-0	15-9
	#1	19-9	17-9	16-3	14-0
6 x 8	SS	28-3	26-3	24-9	21-6
	#1	27-0	24-3	22-0	19-3
6 x 10	SS	35-9	33-3	31-3	28-0
	#1	35-9	32-6	29-9	25-9

BEAM SIZE W x D	RAFTER SPAN (FT)	MAXIMUM POST SPACING (FT)	
		#1+; #1	#2
		4 x 6	8
4 x 8	12	10-0	10-0
	14	10-0	8-0
	16	8-0	8-0
	4 x 8	12	14-0
4 x 10	16	12-0	12-0
	20	10-0	10-0
	24	10-0	10-0
	4 x 10	16	14-0
4 x 12	20	14-0	12-0
	24	12-0	12-0
	28	12-0	10-0
	4 x 12	16	18-0
4 x 12	20	16-0	14-0
	24	14-0	14-0
	28	14-0	12-0



**DIVISION OF BUILDING AND SAFETY  
COUNTY OF VENTURA**

B & S  
STD **B-18**

BUILDING OFFICIAL \_\_\_\_\_

*Jim MacDonald*

DATE: 01/01/08