

# ALLOWABLE SPAN TABLES FOR CEILING JOISTS

California Building Code 2007 Edition (CBC), NDS 2005

Lumber: Douglas Fir-Larch, Surfaced-Dry condition  
(19% maximum moisture content).

Ceiling: Drywalled or Plastered.

Design Criteria: Strength: Based on allowable bending stresses and shear stresses  
for LL 10# + DL 5# = 15# TL per Sq. Ft.  
15% Repetitive member factor applied. w psf

Deflection: Based on LL: L/360 for Plaster and L/240 for Drywall.

PLASTERED CEILING				
SIZE W x D	GRADE	JOIST SPACING IN INCHES		
		12	16	24
2 x 4	SS	11-3	10-3	9-0
	#1+	11-3	10-0	8-9
	#1	11-0	10-0	8-9
	#2	10-9	9-9	8-6
	#3	10-3	9-3	7-9
2 x 6	SS	18-0	16-3	14-3
	#1+	17-6	16-0	14-0
	#1	17-3	15-9	13-9
	#2	17-0	15-3	13-6
	#3	16-0	14-0	11-3
2 x 8	SS	23-9	21-6	18-9
	#1+	23-3	21-0	18-6
	#1	22-9	20-9	18-0
	#2	22-3	20-3	17-9
	#3	20-6	17-9	14-6
2 x 10	SS	30-3	27-6	24-0
	#1+	29-9	27-0	23-6
	#1	29-0	26-6	23-0
	#2	28-6	26-0	22-6
	#3	25-0	21-9	17-9

DRYWALLED CEILING				
SIZE W x D	GRADE	JOIST SPACING IN INCHES		
		12	16	24
2 x 4	SS	13-0	11-9	10-3
	#1+	12-9	11-6	10-0
	#1	12-6	11-3	10-0
	#2	12-3	11-3	9-9
	#3	11-0	9-6	7-9
2 x 6	SS	20-6	18-6	16-3
	#1+	20-3	18-3	16-0
	#1	19-9	18-0	15-9
	#2	19-3	17-6	15-0
	#3	16-0	14-0	11-3
2 x 8	SS	27-0	24-6	21-6
	#1+	26-6	24-3	21-0
	#1	26-0	23-9	20-0
	#2	25-6	23-3	19-0
	#3	20-6	17-9	14-6
2 x 10	SS	34-6	31-6	27-6
	#1+	34-0	30-9	26-9
	#1	33-3	30-0	24-6
	#2	32-9	28-3	23-3
	#3	25-0	21-9	17-9

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

**B & S  
STD**

**B-23**

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

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