



**CITY OF HAWAIIAN GARDENS**  
**DEPARTMENT OF COMMUNITY DEVELOPMENT**  
**BUILDING AND SAFETY DIVISION**  
 21815 Pioneer Boulevard  
 Hawaiian Gardens, Ca 90716  
 (562) 420 2641

**B-026**

**EFFECTIVE :**  
**1-05-2015**

### ALLOWABLE SPAN TABLES FOR CEILING JOISTS

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.

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

PLASTERED CEILING					DRYWALLED CEILING				
SIZE WxD	GRADE	JOISTS SPACING IN INCHES			SIZE WxD	GRADE	JOISTS SPACING IN INCHES		
		12	16	24			12	16	24
2 X 4	SS	11-3	10-3	9-0	2 X 4	SS	13-0	11-9	10-3
	#1+	11-3	10-0	8-9		#1+	12-9	11-6	10-0
	#1	11-0	10-0	8-9		#1	12-6	11-3	10-0
	#2	10-9	9-9	8-6		#2	12-3	11-3	9-9
	#3	10-3	9-3	7-6		#3	10-9	9-3	7-6
2 X 6	SS	18-0	16-3	14-3	2 X 6	SS	20-6	18-6	16-3
	#1+	17-6	16-0	14-0		#1+	20-3	18-3	16-0
	#1	17-3	15-9	13-9		#1	19-9	18-0	15-9
	#2	17-0	15-3	13-6		#2	19-3	17-6	14-9
	#3	15-9	13-6	11-0		#3	15-9	13-6	11-0
2 X 8	SS	23-9	21-6	18-9	2 X 8	SS	27-0	24-6	21-6
	#1+	23-3	21-0	18-6		#1+	26-6	24-3	21-0
	#1	22-9	20-9	18-0		#1	26-0	23-9	20-0
	#2	22-3	20-3	17-9		#2	25-6	22-9	18-9
	#3	20-0	17-3	14-0		#3	20-0	17-3	14-0
2 X 10	SS	30-3	27-6	24-0	2 X 10	SS	34-6	31-6	27-6
	#1+	29-9	27-0	23-6		#1+	34-0	30-9	26-3
	#1	29-0	26-6	23-0		#1	33-3	30-0	24-6
	#2	28-6	26-0	22-6		#2	32-3	28-0	22-9
	#3	24-6	21-0	17-3		#3	24-6	21-0	17-3