

CEILING JOISTS

10# LIVE LOAD 5# DEAD LOAD L/240

Table CJ-4

Design Criteria: *Strength* - 10 lbs. per sq. ft. live load, plus 5 lbs. per sq. ft. dead load.

Deflection - Limited in span in inches divided by 240 for live load only.

Species or Group		Grade		Span (feet and inches)															
				2 x 4				2 x 6				2 x 8				2 x 10			
				spacing on center															
12"	16"	19.2"	24"	12"	16"	19.2"	24"	12"	16"	19.2"	24"	12"	16"	19.2"	24"				
Douglas Fir- Larch	Sel. Struc.	13-2	11-11	11-3	10-5	20-8	18-9	17-8	16-4	27-2	24-8	23-3	21-7	34-8	31-6	29-8	27-6		
	No.1 & Btr.	12-11	11-9	11-0	10-3	20-3	18-5	17-4	16-1	26-9	24-3	22-10	21-2	34-1	31-0	29-2	26-10		
	No.1	12-8	11-6	10-10	10-0	19-11	18-1	17-0	15-9	26-2	23-10	22-5	20-1	33-5	30-0	27-5	24-6		
	No.2	12-5	11-3	10-7	9-10	19-6	17-8	16-8	15-0	25-8	23-4	21-4	19-1	32-9	28-6	26-0	23-3		
	No.3	11-1	9-7	8-9	7-10	16-3	14-1	12-10	11-6	20-7	17-10	16-3	14-7	25-2	21-9	19-10	17-9		
Douglas Fir- South	Sel. Struc.	11-10	10-9	10-2	9-5	18-8	16-11	15-11	14-9	24-7	22-4	21-0	19-6	31-4	28-6	26-10	24-10		
	No.1	11-7	10-6	9-11	9-2	18-2	16-6	15-7	14-5	24-0	21-9	20-6	19-0	30-7	27-9	26-2	23-7		
	No.2	11-3	10-3	9-8	8-11	17-8	16-1	15-2	14-1	23-4	21-2	19-11	18-6	29-9	27-1	25-3	22-7		
	No.3	10-10	9-5	8-7	7-8	15-10	13-9	12-6	11-2	20-1	17-5	15-10	14-2	24-6	21-3	19-5	17-4		
Hem-Fir	Sel. Struc.	12-5	11-3	10-7	9-10	19-6	17-8	16-8	15-6	25-8	23-4	21-11	20-5	32-9	29-9	28-0	26-0		
	No.1 & Btr.	12-2	11-0	10-4	9-8	19-1	17-4	16-4	15-2	25-2	22-10	21-6	19-11	32-1	29-2	27-5	25-5		
	No.1	12-2	11-0	10-4	9-8	19-1	17-4	16-4	15-2	25-2	22-10	21-6	19-10	32-1	29-2	27-1	24-3		
	No.2	11-7	10-6	9-11	9-2	18-2	16-6	15-7	14-5	24-0	21-9	20-6	18-6	30-7	27-8	25-3	22-7		
	No.3	10-10	9-5	8-7	7-8	15-10	13-9	12-6	11-2	20-1	17-5	15-10	14-2	24-6	21-3	19-5	17-4		
Spruce- Pine-Fir South	Sel. Struc.	11-7	10-6	9-11	9-2	18-2	16-6	15-7	14-5	24-0	21-9	20-6	19-0	30-7	27-9	26-2	24-3		
	No.1	11-3	10-3	9-8	8-11	17-8	16-1	15-2	14-1	23-4	21-2	19-11	18-6	29-9	27-1	25-5	22-11		
	No.2	10-11	9-11	9-4	8-8	17-2	15-7	14-8	13-8	22-8	20-7	19-5	17-8	28-11	26-3	24-2	21-7		
	No.3	10-3	8-11	8-2	7-3	15-0	13-0	11-11	10-8	19-1	16-6	15-1	13-6	23-3	20-2	18-5	16-5		
Western Woods	Sel. Struc.	11-3	10-3	9-8	8-11	17-8	16-1	15-2	14-1	23-4	21-2	19-11	18-6	29-9	27-1	25-5	23-3		
	No.1	10-11	9-11	9-4	8-8	17-2	15-7	14-7	13-0	22-8	20-2	18-5	16-6	28-6	24-8	22-6	20-2		
	No.2	10-7	9-8	9-1	8-5	16-8	15-2	14-3	13-0	21-11	19-11	18-5	16-6	28-0	24-8	22-6	20-2		
	No.3	9-5	8-2	7-5	6-8	13-9	11-11	10-10	9-8	17-5	15-1	13-9	12-4	21-3	18-5	16-9	15-0		