

FLOOR JOISTS

100# LIVE LOAD 20# DEAD LOAD L/360

Table FJ-19

Design Criteria: *Strength* - 100 lbs. per sq. ft. live load, plus 20 lbs. per sq. ft. dead load.

Deflection - Limited in span in inches divided by 360 for live load only.

Species or Group		Grade		Span (feet and inches)															
				2 x 8				2 x 10				2 x 12				2 x 14			
				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.	11-0	10-0	9-5	8-8	14-1	12-9	11-10	10-7	17-1	15-1	13-9	12-4	19-5	16-10	15-5	13-9		
	No.1 & Btr.	10-10	9-6	8-8	7-9	13-5	11-8	10-7	9-6	15-7	13-6	12-4	11-0	17-5	15-1	13-9	12-4		
	No.1	10-0	8-8	7-11	7-1	12-3	10-7	9-8	8-8	14-3	12-4	11-3	10-1	15-11	13-9	12-7	11-3		
	No.2	9-6	8-3	7-6	6-9	11-8	10-1	9-2	8-3	13-6	11-8	10-8	9-6	15-1	13-1	11-11	10-8		
	No.3	7-3	6-4	5-9	5-2	8-11	7-8	7-0	6-3	10-4	8-11	8-2	7-3	11-6	10-0	9-1	8-2		
Douglas Fir-South	Sel. Struc.	10-0	9-1	8-6	7-11	12-8	11-7	10-10	10-1	15-5	14-0	13-1	11-8	18-2	16-0	14-7	13-1		
	No.1	9-8	8-4	7-8	6-10	11-10	10-3	9-4	8-4	13-8	11-10	10-10	9-8	15-3	13-3	12-1	10-10		
	No.2	9-3	8-0	7-4	6-7	11-4	9-9	8-11	8-0	13-1	11-4	10-4	9-3	14-8	12-8	11-7	10-4		
	No.3	7-1	6-2	5-7	5-0	8-8	7-6	6-10	6-2	10-1	8-8	7-11	7-1	11-3	9-9	8-11	7-11		
Hem-Fir	Sel. Struc.	10-5	9-6	8-11	8-3	13-3	12-1	11-4	10-3	16-2	14-7	13-4	11-11	18-10	16-3	14-10	13-3		
	No.1 & Btr.	10-2	9-1	8-4	7-5	12-10	11-2	10-2	9-1	14-11	12-11	11-9	10-7	16-8	14-5	13-2	11-9		
	No.1	9-11	8-7	7-10	7-0	12-1	10-6	9-7	8-7	14-0	12-2	11-1	9-11	15-8	13-7	12-5	11-1		
	No.2	9-3	8-0	7-4	6-7	11-4	9-9	8-11	8-0	13-1	11-4	10-4	9-3	14-8	12-8	11-7	10-4		
	No.3	7-1	6-2	5-7	5-0	8-8	7-6	6-10	6-2	10-1	8-8	7-11	7-1	11-3	9-9	8-11	7-11		
Spruce-Pine-Fir (South)	Sel. Struc.	9-9	8-10	8-4	7-9	12-5	11-3	10-7	9-10	15-1	13-8	12-10	11-6	17-9	15-8	14-4	12-10		
	No.1	9-5	8-2	7-5	6-8	11-6	9-11	9-1	8-1	13-4	11-6	10-6	9-5	14-10	12-10	11-9	10-6		
	No.2	8-10	7-8	7-0	6-3	10-10	9-4	8-6	7-8	12-6	10-10	9-11	8-10	14-0	12-1	11-1	9-11		
	No.3	6-9	5-10	5-4	4-9	8-3	7-1	6-6	5-10	9-6	8-3	7-6	6-9	10-8	9-3	8-5	7-6		
Western Woods	Sel. Struc.	9-6	8-3	7-6	6-9	11-8	10-1	9-2	8-3	13-6	11-8	10-8	9-6	15-1	13-1	11-11	10-8		
	No.1	8-3	7-2	6-6	5-10	10-1	8-9	8-0	7-1	11-8	10-1	9-3	8-3	13-1	11-4	10-4	9-3		
	No.2	8-3	7-2	6-6	5-10	10-1	8-9	8-0	7-1	11-8	10-1	9-3	8-3	13-1	11-4	10-4	9-3		
	No.3	6-2	5-4	4-10	4-4	7-6	6-6	5-11	5-4	8-8	7-6	6-11	6-2	9-9	8-5	7-8	6-11		