Lumber Span Tables for Spruce-Pine-Fir South (SPFs)**

Table 1 Floor Joists - 40 psf Live Load, 10 psf Dead Load, L/360 Deflection													
Span (feet-inches)													
	2x6			2x8			2x10			2x12			
Species	Grade	12" oc	16" oc	24" oc	12" oc	16" oc	24" oc	12" oc	16" oc	24" oc	12" oc	16" oc	24" oc
	No.1	9-9	8-10	7-9	12-10	11-8	10-2	16-5	14-11	12-7	19-11	17-10	14-7
SPF(s)	No.2	9-6	8-7	7-6	12-6	11-4	9-8	15-11	14-6	11-10	19-4	16-10	13-9
	No 3	Q_2	7_2	5_10	10-5	۵_۸	7_5	12-0	11_0	۵_۸	1/1_0	12-10	10-5

Note: Deflection is limited to the span in inches divided by 360 for live load only. Maximum spans are inside to inside of bearings.

Table 2 Floor Joists - 30 psf Live Load, 10 psf Dead Load, L/360 Deflection													
			Span (feet-inches)										
	2x6			2x8			2x10			2x12			
Species	Grade	12" oc	16" oc	24" oc	12" oc	16" oc	24" oc	12" oc	16" oc	24" oc	12" oc	16" oc	24" oc
	No.1	10-9	9-9	8-6	14-2	12-10	11-3	18-0	16-5	14-1	21-11	19-11	16-3
SPF(s)	No.2	10-5	9-6	8-3	13-9	12-6	10-10	17-6	15-11	13-3	21-4	18-9	15-4
	No.3	9-3	8-0	6-6	11-8	10-1	8-3	14-3	12-4	10-1	16-6	14-4	11-8

Note: Deflection is limited to the span in inches divided by 360 for live load only. Maximum spans are inside to inside of bearings

Table 3	Ceiling Joists - 20 psf Live Load, 10 psf Dead Load, L/240 Deflection (Limited Attic Storage)												
	Span (feet-inches)												
		2x6			2x8			2x10			2x12		
Species	Grade	12" oc	16" oc	24" oc	12" oc	16" oc	24" oc	12" oc	16" oc	24" oc	12" oc	16" oc	24" oc
	No.1	14-1	12-9	10-6	18-6	16-3	13-3	22-11	19-10	16-3	26-7	23-0	18-10
SPF(s)	No.2	13-8	12-1	9-10	17-8	15-4	12-6	21-7	18-8	15-3	25-0	21-8	17-8
	No.3	10-8	9-3	7-6	13-6	11-8	9-6	16-5	14-3	11-8	19-1	16-6	13-6

Note: Deflection is limited to the span in inches divided by 240 for live load only. Maximum spans are inside to inside of bearings

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SPFs is a grouping of wood species (Eastern Spruces, Balsam Fir, Red Pine, Jack Pine, Englemann Spruce, Lodgepole Pine, and Sitka Spruce).

Span calculations derived from the American Wood Council's "Span Calculator" Program, available at www.awc.org.