

**TABLE 30****CEILING JOIST SPANS: ATTICS WITHOUT STORAGE  
10 LB. LIVE LOAD [T802.4(1)]**

Size	Douglas Fir-Larch #2 Spacing o.c.				Southern Pine #2 Spacing o.c.			
	12 in.	16 in.	19.2 in.	24 in.	12 in.	16 in.	19.2 in.	24 in.
2×4	12-5	11-3	10-7	9-10	12-5	11-3	10-7	9-10
2×6	19-6	17-8	16-7	14-10	19-6	17-8	16-8	15-6
2×8	25-8	23-0	21-0	18-9	25-8	23-4	21-11	20-1
2×10	> 26	> 26	25-8	22-11	> 26	> 26	> 26	23-11

Measurements given in feet & inches (ft.-in.).  
Dead load = 5 psf

**TABLE 31****CEILING JOIST SPANS: UNINHABITABLE ATTICS WITH  
LIMITED STORAGE, 20 LB. LIVE LOAD [T802.4(2)]**

Size	Douglas Fir-Larch #2 Spacing o.c.				Southern Pine #2 Spacing o.c.			
	12 in.	16 in.	19.2 in.	24 in.	12 in.	16 in.	19.2 in.	24 in.
2×4	9-10	8-9	8-0	7-2	9-10	8-11	8-5	7-8
2×6	14-10	12-10	11-9	10-6	15-6	13-6	12-3	11-0
2×8	18-9	16-3	14-10	13-3	20-1	17-5	15-10	14-2
2×10	22-11	19-10	18-2	16-3	23-11	20-9	18-11	16-11

Measurements given in feet & inches (ft.-in.).  
Dead load = 10 psf.

**TABLE 33****RAFTER HORIZONTAL SPANS<sup>A,B</sup> [T802.5.1(1)]  
10 LB. DEAD LOAD, 20 LB. LIVE LOAD<sup>C</sup>**

Size	Douglas Fir-Larch #2 Spacing o.c.				Southern Pine #2 Spacing o.c.			
	12 in.	16 in.	19.2 in.	24 in.	12 in.	16 in.	19.2 in.	24 in.
2×4	10-10	9-10	8-11	8-0	10-10	9-10	9-3	8-7
2×6	16-7	14-4	13-1	11-9	17-0	15-1	13-9	12-3
2×8	21-0	18-2	16-7	14-10	22-5	19-5	17-9	15-10
2×10	25-8	22-3	20-3	18-2	> 26	23-2	21-2	18-11
2×12	> 26	25-9	23-6	21-0	> 26	> 26	24-10	22-2

A. Measurements given in feet & inches (ft.-in.) before **T32** adjustment factor.

B. Ceiling not attached to rafters, deflection max L/180.

C. Loads typical for asphalt shingles with no snow load; check with local BO for snow load for your area.

**TABLE 34****RAFTER HORIZONTAL SPANS<sup>A,B</sup> [T802.5.1(3)]  
20 LB. DEAD LOAD, 30 PSF SNOW LOAD<sup>C</sup>**

Size	Douglas Fir-Larch #2 Spacing o.c.				Southern Pine #2 Spacing o.c.			
	12 in.	16 in.	19.2 in.	24 in.	12 in.	16 in.	19.2 in.	24 in.
2×4	8-5	7-3	6-8	5-11	9-0	7-10	7-1	6-4
2×6	12-4	10-8	9-9	8-8	12-11	11-2	10-2	9-2
2×8	15-7	13-6	12-4	11-0	16-8	14-5	13-2	11-9
2×10	19-1	16-6	15-1	13-6	19-11	17-3	15-9	14-1
2×12	22-1	19-2	17-6	15-7	23-4	20-2	18-5	16-6

A. Measurements given in feet & inches (ft.-in.) before **T32** adjustment factor.

B. Ceiling not attached to rafters, deflection max. L/180.

C. Loads here typical for slate with 30 psf snow load; check with local BO for snow load for your area.