

**Table 3.25B2 Ceiling Joist Spans for Common Lumber Species**  
 (Uninhabitable Attics With Limited Storage) Live Load = 20 psf,  $L/\Delta_{LL}=360$ ,  
 Dead Load = 10 psf, Brittle Finish (including plaster and stucco)

**LL = 20 psf**  
 **$L/\Delta_{LL} = 360$**

Joist Spacing (in.)	Species	Grade	Dead Load = 10 psf			
			2x4	2x6	2x8	2x10
			Maximum Ceiling Joist Spans <sup>1,2</sup>			
			(ft.-in.)	(ft.-in.)	(ft.-in.)	(ft.-in.)
12	Douglas Fir-Larch	SS	9-1	14-4	18-10	24-1
	Douglas Fir-Larch	No.1	8-9	13-9	18-2	23-2
	Douglas Fir-Larch	No.2	8-7	13-6	17-10	22-9
	Douglas Fir-Larch	No.3	7-10	11-6	14-7	17-9
	Hem-Fir	SS	8-7	13-6	17-10	22-9
	Hem-Fir	No.1	8-5	13-3	17-5	22-3
	Hem-Fir	No.2	8-0	12-7	16-7	21-2
	Hem-Fir	No.3	7-8	11-2	14-2	17-4
	Southern Pine	SS	8-11	14-1	18-6	23-8
	Southern Pine	No.1	8-7	13-6	17-10	22-9
	Southern Pine	No.2	8-3	12-11	17-0	20-11
	Southern Pine	No.3	7-2	10-6	13-3	16-1
	Spruce-Pine Fir	SS	8-5	13-3	17-5	22-3
	Spruce-Pine Fir	No.1	8-3	12-11	17-0	21-9
	Spruce-Pine Fir	No.2	8-3	12-11	17-0	21-9
	Spruce-Pine Fir	No.3	7-8	11-2	14-2	17-4
16	Douglas Fir-Larch	SS	8-3	13-0	17-2	21-10
	Douglas Fir-Larch	No.1	8-0	12-6	16-6	21-1
	Douglas Fir-Larch	No.2	7-10	12-3	16-2	20-2
	Douglas Fir-Larch	No.3	6-10	9-11	12-7	15-3
	Hem-Fir	SS	7-10	12-3	16-2	20-8
	Hem-Fir	No.1	7-8	12-0	15-10	20-2
	Hem-Fir	No.2	7-3	11-5	15-1	19-3
	Hem-Fir	No.3	6-8	9-8	12-4	15-0
	Southern Pine	SS	8-1	12-9	16-10	21-6
	Southern Pine	No.1	7-10	12-3	16-2	20-8
	Southern Pine	No.2	7-6	11-9	15-3	18-1
	Southern Pine	No.3	6-2	9-2	11-3	14-0
	Spruce-Pine Fir	SS	7-8	12-0	15-10	20-2
	Spruce-Pine Fir	No.1	7-6	11-9	15-6	19-9
	Spruce-Pine Fir	No.2	7-6	11-9	15-6	19-9
	Spruce-Pine Fir	No.3	6-8	9-8	12-4	15-0
19.2	Douglas Fir-Larch	SS	7-9	12-3	16-1	20-7
	Douglas Fir-Larch	No.1	7-6	11-9	15-6	19-3
	Douglas Fir-Larch	No.2	7-4	11-7	15-1	18-3
	Douglas Fir-Larch	No.3	6-2	9-1	11-6	14-1
	Hem-Fir	SS	7-4	11-7	15-3	19-3
	Hem-Fir	No.1	7-2	11-4	14-11	19-0
	Hem-Fir	No.2	6-10	10-9	14-2	17-10
	Hem-Fir	No.3	6-1	8-10	11-3	13-8
	Southern Pine	SS	7-8	12-0	15-10	20-2
	Southern Pine	No.1	7-4	11-7	15-3	18-11
	Southern Pine	No.2	7-0	11-0	13-11	16-6
	Southern Pine	No.3	5-8	8-4	10-6	12-9
	Spruce-Pine Fir	SS	7-2	11-4	14-11	19-0
	Spruce-Pine Fir	No.1	7-0	11-1	14-7	18-2
	Spruce-Pine Fir	No.2	7-0	11-1	14-7	18-2
	Spruce-Pine Fir	No.3	6-1	8-10	11-3	13-8
24	Douglas Fir-Larch	SS	7-3	11-4	15-0	19-1
	Douglas Fir-Larch	No.1	7-0	10-11	14-2	17-4
	Douglas Fir-Larch	No.2	6-10	10-8	13-6	16-3
	Douglas Fir-Larch	No.3	5-7	8-1	10-3	12-7
	Hem-Fir	SS	6-10	10-9	14-2	18-0
	Hem-Fir	No.1	6-8	10-6	13-10	17-1
	Hem-Fir	No.2	6-4	10-0	13-1	16-0
	Hem-Fir	No.3	5-5	7-11	10-0	12-3
	Southern Pine	SS	7-1	11-2	14-8	18-9
	Southern Pine	No.1	6-10	10-9	14-2	16-11
	Southern Pine	No.2	6-6	9-10	12-6	14-9
	Southern Pine	No.3	5-1	7-3	9-3	11-3
	Spruce-Pine Fir	SS	6-8	10-6	13-10	17-8
	Spruce-Pine Fir	No.1	6-6	10-3	13-3	16-3
	Spruce-Pine Fir	No.2	6-6	10-3	13-3	16-3
	Spruce-Pine Fir	No.3	5-3	7-11	10-0	12-3

1 Bracing shall be provided in accordance with 3.3.1.4.

2 Spans checked for live load deflection only.

NOTE: Spans are limited to 26 feet in length. Check sources for availability of lumber in lengths greater than 20 feet.