

**Table 3.26B Rafter Spans for Common Lumber Species**  
 (Ceiling Attached to Rafters) Live Load = 20 psf,  $L/\Delta_{LL} = 240$ , Flexible  
 Finish (including gypsum board)

**LL = 20 psf**  
 **$L/\Delta_{LL} = 240$**

Dead Load = 10 psf					Dead Load = 20 psf				
2x4	2x6	2x8	2x10	2x12	2x4	2x6	2x8	2x10	2x12

Maximum Rafter Spans<sup>1,2,3,4</sup>

Joist Spacing (in.)	Species	Grade	(ft.-in.)	(ft.-in.)	(ft.-in.)	(ft.-in.)	(ft.-in.)	(ft.-in.)	(ft.-in.)	(ft.-in.)	(ft.-in.)	(ft.-in.)
12	Douglas Fir-Larch	SS	10-5	16-4	21-7	26-0†	26-0†	10-5	16-4	21-7	26-0†	26-0†
	Douglas Fir-Larch	No.1	10-0	15-9	20-10	26-0†	26-0†	10-0	15-4	19-5	23-9	26-0†
	Douglas Fir-Larch	No.2	9-10	15-6	20-5	26-0†	26-0†	9-10	14-7	18-5	22-6	26-0†
	Douglas Fir-Larch	No.3	8-9	12-10	16-3	19-10	23-0	7-7	11-1	14-1	17-2	19-11
	Hem-Fir	SS	9-10	15-6	20-5	26-0†	26-0†	9-10	15-6	20-5	26-0†	26-0†
	Hem-Fir	No.1	9-8	15-2	19-11	25-5	26-0†	9-8	15-2	19-2	23-5	26-0†
	Hem-Fir	No.2	9-2	14-5	19-0	24-3	26-0†	9-2	14-2	17-11	21-11	25-5
	Hem-Fir	No.3	8-7	12-6	15-10	19-5	22-6	7-5	10-10	13-9	16-9	19-6
	Southern Pine	SS	10-3	16-1	21-2	26-0†	26-0†	10-3	16-1	21-2	26-0†	26-0†
	Southern Pine	No.1	9-10	15-6	20-5	26-0†	26-0†	9-10	15-6	19-10	23-2	26-0†
	Southern Pine	No.2	9-5	14-9	19-6	23-5	26-0†	9-0	13-6	17-1	20-3	23-10
	Southern Pine	No.3	8-0	11-9	14-10	18-0	21-4	6-11	10-2	12-10	15-7	18-6
	Spruce-Pine Fir	SS	9-8	15-2	19-11	25-5	26-0†	9-8	15-2	19-11	25-5	26-0†
	Spruce-Pine Fir	No.1	9-5	14-9	19-6	24-10	26-0†	9-5	14-4	18-2	22-3	25-9
Spruce-Pine Fir	No.2	9-5	14-9	19-6	24-10	26-0†	9-5	14-4	18-2	22-3	25-9	
Spruce-Pine Fir	No.3	8-7	12-6	15-10	19-5	22-6	7-5	10-10	13-9	16-9	19-6	
16	Douglas Fir-Larch	SS	9-6	14-11	19-7	25-0	26-0†	9-6	14-11	19-7	25-0	26-0†
	Douglas Fir-Larch	No.1	9-1	14-4	18-11	23-9	26-0†	9-1	13-3	16-10	20-7	23-10
	Douglas Fir-Larch	No.2	8-11	14-1	18-5	22-6	26-0†	8-7	12-7	16-0	19-6	22-7
	Douglas Fir-Larch	No.3	7-7	11-1	14-1	17-2	19-11	6-7	9-8	12-2	14-11	17-3
	Hem-Fir	SS	8-11	14-1	18-6	23-8	26-0†	8-11	14-1	18-6	23-8	26-0†
	Hem-Fir	No.1	8-9	13-9	18-2	23-1	26-0†	8-9	13-1	16-7	20-4	23-7
	Hem-Fir	No.2	8-4	13-1	17-3	21-11	25-5	8-4	12-3	15-6	19-0	22-0
	Hem-Fir	No.3	7-5	10-10	13-9	16-9	19-6	6-5	9-5	11-11	14-6	16-10
	Southern Pine	SS	9-4	14-7	19-3	24-7	26-0†	9-4	14-7	19-3	24-7	26-0†
	Southern Pine	No.1	8-11	14-1	18-6	23-2	26-0†	8-11	13-7	17-2	20-1	23-10
	Southern Pine	No.2	8-7	13-5	17-1	20-3	23-10	7-9	11-8	14-9	17-6	20-8
	Southern Pine	No.3	6-11	10-2	13-10	16-7	18-6	6-0	8-10	11-2	13-6	16-0
	Spruce-Pine Fir	SS	8-9	13-9	18-2	23-1	26-0†	8-9	13-9	18-2	23-0	26-0†
	Spruce-Pine Fir	No.1	8-7	13-5	17-9	22-3	25-9	8-6	12-5	15-9	19-3	22-4
Spruce-Pine Fir	No.2	8-7	13-5	17-9	22-3	25-9	8-6	12-5	15-9	19-3	22-4	
Spruce-Pine Fir	No.3	7-5	10-10	13-9	16-9	19-6	6-5	9-5	11-11	14-6	16-10	
19.2	Douglas Fir-Larch	SS	8-11	14-0	18-5	23-7	26-0†	8-11	14-0	18-5	23-0	26-0†
	Douglas Fir-Larch	No.1	8-7	13-6	17-9	21-8	25-2	8-4	12-2	15-4	18-9	21-9
	Douglas Fir-Larch	No.2	8-5	13-3	16-10	20-7	23-10	7-10	11-6	14-7	17-10	20-8
	Douglas Fir-Larch	No.3	6-11	10-2	12-10	15-8	18-3	6-0	8-9	11-2	13-7	15-9
	Hem-Fir	SS	8-5	13-3	17-5	22-3	26-0†	8-5	13-3	17-5	22-3	25-9
	Hem-Fir	No.1	8-3	12-11	17-1	21-5	24-10	8-2	12-0	15-2	18-6	21-6
	Hem-Fir	No.2	7-10	12-4	16-3	20-0	23-2	7-8	11-2	14-2	17-4	20-1
	Hem-Fir	No.3	6-9	9-11	12-7	15-4	17-9	5-10	8-7	10-10	13-3	15-5
	Southern Pine	SS	8-9	13-9	18-2	23-1	26-0†	8-9	13-9	18-2	23-1	26-0†
	Southern Pine	No.1	8-5	13-3	17-5	21-2	25-2	8-4	12-4	15-8	18-4	21-9
	Southern Pine	No.2	8-1	12-3	15-7	18-6	21-9	7-1	10-8	13-6	16-0	18-10
	Southern Pine	No.3	6-4	9-4	11-9	14-3	16-10	5-6	8-1	10-2	12-4	14-7
	Spruce-Pine Fir	SS	8-3	12-11	17-1	21-9	26-0†	8-3	12-11	17-1	21-0	24-4
	Spruce-Pine Fir	No.1	8-1	12-8	16-7	20-3	23-6	7-9	11-4	14-4	17-7	20-4
Spruce-Pine Fir	No.2	8-1	12-8	16-7	20-3	23-6	7-9	11-4	14-4	17-7	20-4	
Spruce-Pine Fir	No.3	6-9	9-11	12-7	15-4	17-9	5-10	8-7	10-10	13-3	15-5	
24	Douglas Fir-Larch	SS	8-3	13-0	17-2	21-10	26-0†	8-3	13-0	16-10	20-7	23-10
	Douglas Fir-Larch	No.1	8-0	12-6	15-10	19-5	22-6	7-5	10-10	13-9	16-9	19-6
	Douglas Fir-Larch	No.2	7-10	11-11	15-1	18-5	21-4	7-0	10-4	13-0	15-11	18-6
	Douglas Fir-Larch	No.3	6-2	9-1	11-6	14-1	16-3	5-4	7-10	10-0	12-2	14-1
	Hem-Fir	SS	7-10	12-3	16-2	20-8	25-1	7-10	12-3	16-2	19-10	23-0
	Hem-Fir	No.1	7-8	12-0	15-8	19-2	22-2	7-4	10-9	13-7	16-7	19-3
	Hem-Fir	No.2	7-3	11-5	14-8	17-10	20-9	6-10	10-0	12-8	15-6	17-11
	Hem-Fir	No.3	6-1	8-10	11-3	13-8	15-11	5-3	7-8	9-9	11-10	13-9
	Southern Pine	SS	8-1	12-9	16-10	21-6	26-0†	8-1	12-9	16-10	20-10	24-8
	Southern Pine	No.1	7-10	12-3	16-2	18-11	22-6	7-5	11-1	14-0	16-5	19-6
	Southern Pine	No.2	7-4	11-0	13-11	16-6	19-6	6-4	9-6	12-1	14-4	16-10
	Southern Pine	No.3	5-8	8-4	10-6	12-9	15-1	4-11	7-3	9-1	11-0	13-1
	Spruce-Pine Fir	SS	7-8	12-0	15-10	20-2	24-7	7-8	12-0	15-4	18-9	21-9
	Spruce-Pine Fir	No.1	7-6	11-9	14-10	18-2	21-0	6-11	10-2	12-10	15-8	18-3
Spruce-Pine Fir	No.2	7-6	11-9	14-10	18-2	21-0	6-11	10-2	12-10	15-8	18-3	
Spruce-Pine Fir	No.3	6-1	8-10	11-3	13-8	15-11	5-3	7-8	9-9	11-10	13-9	

† Spans are limited to 26 feet in length.  
 See footnotes 1-4.