

RAFTER SPANS

TABLE 802.4.1 (3)

Ceiling **NOT ATTACHED** to rafters

Ground snow load = 30 psf

JOIST SPACING (inches)	SPECIES AND GRADE		DEAD LOAD = 10 PSF					JOIST SPACING (inches)	SPECIES AND GRADE		DEAD LOAD = 10 PSF				
			2 x 4	2 x 6	2 x 8	2 x 10	2 x 12				2 x 4	2 x 6	2 x 8	2 x 10	2 x 12
			Maximum rafter spans								Maximum rafter spans				
			(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	10-0	15-9	20-9	>26'	>26'	19.2	Douglas Fir-Larch	SS	8-7	13-6	17-9	22-1	25-7
	Douglas Fir-Larch	#1	9-8	14-9	18-8	22-9	>26'		Douglas Fir-Larch	#1	7-11	11-8	14-9	18-0	20-11
	Douglas Fir-Larch	#2	9-6	14-0	17-8	21-7	25-1		Douglas Fir-Larch	#2	7-7	11-0	14-0	17-1	19-10
	Douglas Fir-Larch	#3	7-3	10-8	13-6	16-6	19-2		Douglas Fir-Larch	#3	5-9	8-5	10-8	13-1	15-2
	Hem-Fir	SS	9-6	14-10	19-7	25-0	>26'		Hem-Fir	SS	8-1	12-9	16-9	21-4	24-8
	Hem-Fir	#1	9-3	14-6	18-5	22-6	26-0		Hem-Fir	#1	7-10	11-6	14-7	17-9	20-7
	Hem-Fir	#2	8-10	13-7	17-2	21-0	24-4		Hem-Fir	#2	7-4	10-9	13-7	16-7	19-3
	Hem-Fir	#3	7-1	10-5	13-2	16-1	18-8		Hem-Fir	#3	5-7	8-3	10-5	12-9	14-9
	Southern Pine	SS	9-10	15-6	20-5	>26'	>26'		Southern Pine	SS	8-5	13-3	17-5	22-3	>26'
	Southern Pine	#1	9-6	14-10	19-0	22-3	>26'		Southern Pine	#1	8-0	11-10	15-1	17-7	20-11
	Southern Pine	#2	8-7	12-11	16-4	19-5	22-10		Southern Pine	#2	6-10	10-2	12-11	15-4	18-1
	Southern Pine	#3	6-7	9-9	12-4	15-0	17-9		Southern Pine	#3	5-3	7-9	9-9	11-10	14-0
	Spruce-Pine-Fir	SS	9-3	14-7	19-2	24-6	>26'		Spruce-Pine-Fir	SS	7-11	12-5	16-5	20-2	23-4
	Spruce-Pine-Fir	#1	9-1	13-9	17-5	21-4	24-8		Spruce-Pine-Fir	#1	7-5	10-11	13-9	16-10	19-6
	Spruce-Pine-Fir	#2	9-1	13-9	17-5	21-4	24-8		Spruce-Pine-Fir	#2	7-5	10-11	13-9	16-10	19-6
	Spruce-Pine-Fir	#3	7-1	10-5	13-2	16-1	18-8		Spruce-Pine-Fir	#3	5-7	8-3	10-5	12-9	14-9
16	Douglas Fir-Larch	SS	9-1	14-4	18-10	24-1	>26'	24	Douglas Fir-Larch	SS	8-0	12-6	16-2	19-9	22-10
	Douglas Fir-Larch	#1	8-9	12-9	16-2	19-9	22-10		Douglas Fir-Larch	#1	7-1	10-5	13-2	16-1	18-8
	Douglas Fir-Larch	#2	8-3	12-1	15-4	18-9	21-8		Douglas Fir-Larch	#2	6-9	9-10	12-6	15-3	17-9
	Douglas Fir-Larch	#3	6-4	9-3	11-8	14-3	16-7		Douglas Fir-Larch	#3	5-2	7-7	9-7	11-8	13-6
	Hem-Fir	SS	8-7	13-6	17-10	22-9	>26'		Hem-Fir	SS	7-6	11-10	15-7	19-1	22-1
	Hem-Fir	#1	8-5	12-7	15-11	19-6	22-7		Hem-Fir	#1	7-0	10-3	13-0	15-11	18-5
	Hem-Fir	#2	8-0	11-9	14-11	18-2	21-1		Hem-Fir	#2	6-7	9-7	12-2	14-10	17-3
	Hem-Fir	#3	6-2	9-0	11-5	13-11	16-2		Hem-Fir	#3	5-0	7-4	9-4	11-5	13-2
	Southern Pine	SS	8-11	14-1	18-6	23-8	>26'		Southern Pine	SS	7-10	12-3	16-2	20-0	23-7
	Southern Pine	#1	8-7	13-0	16-6	19-3	22-10		Southern Pine	#1	7-1	10-7	13-5	15-9	18-8
	Southern Pine	#2	7-6	11-2	14-2	16-10	19-10		Southern Pine	#2	6-1	9-2	11-7	13-9	16-2
	Southern Pine	#3	5-9	8-6	10-8	13-0	15-4		Southern Pine	#3	4-8	6-11	8-9	10-7	12-6
	Spruce-Pine-Fir	SS	8-5	13-3	17-5	22-1	25-7		Spruce-Pine-Fir	SS	7-4	11-7	14-9	18-0	20-11
	Spruce-Pine-Fir	#1	8-2	11-11	15-1	18-5	21-5		Spruce-Pine-Fir	#1	6-8	9-9	12-4	15-1	17-6
	Spruce-Pine-Fir	#2	8-2	11-11	15-1	18-5	21-5		Spruce-Pine-Fir	#2	6-8	9-9	12-4	15-1	17-6
	Spruce-Pine-Fir	#3	6-2	9-0	11-5	13-11	16-2		Spruce-Pine-Fir	#3	5-0	7-4	9-4	11-5	13-2

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Ceiling **NOT** ATTACHED to rafters
Ground snow load = 30 psf