SPAN TABLES AND ALLOWABLE LOADS 2019 CBC FOR RESIDENTIAL LIGHT-FRAME ONLY

Design Criteria: Douglas Fir-Larch

Strength: Live load of 40 psf, plus dead load of 10 psf

Limited to span in inches divided by L/240

Spans are limited to 26 feet

	FLOOR	JOISTS	
SIZE	E & SPACING	GRADE #1	GRADE #2
2 x 6	@ 12" O.C.	10' 11"	10' 9"
	@ 16" O.C.	9' 11"	9' 9"
	@ 24" O.C.	8' 8"	8' 1"
2 x 8	@ 12" O.C.	14' 5"	14' 2"
	@ 16" O.C.	13' 1"	12' 7"
	@ 24" O.C.	11' 0"	10' 3"
2 x 10	@ 12" O.C.	18' 5"	17' 9"
	@ 16" O.C.	16' 5"	15' 5"
	@ 24" O.C.	13' 5"	12' 7"
2 x 12	@ 12" O.C.	22' 0"	20' 7"
	@ 16" O.C.	19' 1"	17' 10"
	@ 24" O.C.	'15' 7"	14' 7"

CEILING	JOISTS	
SIZE & SPACING	GRADE #1	GRADE #2
2 x 4 @ 12" O.C.	10' 0"	9' 10"
@ 16" O.C. @ 24" O.C.	9' 1" 7' 8"	8' 9" 7' 2"
2 x 6 @ 12" O.C.	15' 9"	14' 10"
@ 16" O.C. @ 24" O.C.	13' 9" 11' 2"	12' 10" 10' 6"
2 x 8 @ 12" O.C.	20' 1"	18' 9"
@ 16" O.C. @ 24" O.C.	17' 5" 14' 2"	16' 3" 13' 3"
2 x 10 @ 12" O.C.	24' 6"	22' 11"
@ 16" O.C. @ 24" O.C.	21' 3" 17' 4"	19' 10" 16' 3"

		RAFTERS	
SIZE & SPACING		GRADE #1	GRADE #2
2 x 6	@ 12" O.C.	15' 9"	15' 6"
	@ 16" O.C.	14' 4"	14' 1"
	@ 24" O.C.	12' 6"	11' 9"
2 x 8	@ 12" O.C.	20' 10"	20' 5"
	@ 16" O.C.	18' 11"	18' 2"
	@ 24" O.C.	15' 10"	14' 10"
2 x 10	@ 12" 0.C.	Note A	25' 8"
	@ 16" 0.C.	23' 9"	22' 3"
	@ 24" 0.C.	19' 5"	18' 2"
2 x 12	@ 12" 0.C.	Note A	Note A
	@ 16" 0.C.	Note A	25' 9"
	@ 24" 0.C.	22' 6"	21' 0"

Note A: Span exceeds 26 feet in length. Check sources for availability of lumber in lengths greater than 20 feet.