Central Point Building Department

Span Table Handout

Span (feet and inches)

	2 X 6				2 X 8				2 X 10				2 X 12			
	12"	**16"**	**19.2"**	**24"**	**12"**	**16"**	**19.2"**	**24"**	**12"**	**16"**	**19.2"**	**24"**	**12"**	**16"**	**19.2"**	**24"**
Floor Joists																
40# Live, 10# Dead	10-9	9-9	9-2	8-3	14-2	12-9	11-8	10-5	18-0	15-7	14-3	12-9	20-11	18-1	16-6	14-9
Ceiling Joists																
10# Live, 10# Dead	17-0	15-6	14-7	13-0	22-5	20-2	18-5	16-6	28-6	24-8	22-6	20-2				
20# Live, 10# Dead	15-0	13-0	11-11	10-8	19-1	16-6	15-1	13-6	23-3	20-2	18-5	16-5				
Rafters																
25# Live, 10# Dead	14-11	12-11	11-10	10-7	18-11	16-4	14-11	13-4	23-1	20-0	18-3	16-4	26-9	23-2	21-2	18-11
25# Live, 15# Dead	14-0	12-1	11-0	9-10	17-8	15-4	14-0	12-6	21-7	18-9	17-1	15-3	25-1	21-8	19-10	17-9

* Spans based upon Douglas Fir-Larch No. 2, per Western Wood Products Association

Garage ceiling joists - (2 X 12 DF #2 @ 24" o/c, 10# LL + 10# DL max span 22') (2 X 12 DF #2 @ 16" o/c, 20# LL + 10# DL max span 23')

Refer to Oregon Residential Specialty Code section R301 for specific design criteria

Minimum Uniformly Distributed Live Loads

(in pounds per square foot)

Use	Live Load
Attics without storage	**10**
Attics with limited storage	**20**
Attics served with fixed stairs	**30**
Balconies and decks	**40**
Rooms other than sleeping	**40**
Sleeping rooms	**30**
Stairs	**40**

Allowable Deflection of Structural Members

Structural Member	Allowable Deflection
Rafters having slopes greater than 3:12 with no finished ceiling	**L/180**
Floors	**L/360**
All other structural members	**L/240**