

WESTERN LUMBER SPAN TABLE

Douglas Fir-Larch

ROOF RAFTERS

40# SNOW LOAD 15# DEAD LOAD L/180

Span (feet and inches)

Grade	2 x 6				2 x 8				2 x 10				2 x 12			
	spacing on center															
	12"	16"	19.2"	24"	12"	16"	19.2"	24"	12"	16"	19.2"	24"	12"	16"	19.2"	24"
Sel. Struc.	14-4	13-0	12-2	10-10	18-10	16-10	15-5	13-9	23-9	20-7	18-10	16-10	27-7	23-11	21-10	19-6
No.1 & Btr.	13-9	11-11	10-10	9-9	17-5	15-1	13-9	12-4	21-3	18-5	16-10	15-1	24-8	21-4	19-6	17-5
No.1	12-7	10-10	9-11	8-11	15-11	13-9	12-7	11-3	19-5	16-10	15-4	13-9	22-6	19-6	17-10	15-11
No.2	11-11	10-4	9-5	8-5	15-1	13-1	11-11	10-8	18-5	15-11	14-7	13-0	21-4	18-6	16-11	15-1
No.3	9-1	7-11	7-2	6-5	11-6	10-0	9-1	8-2	14-1	12-2	11-1	9-11	16-4	14-2	12-11	11-6

CEILING JOISTS

10# LIVE LOAD 10# DEAD LOAD L/360

Span (feet and inches)

Grade	2 x 4				2 x 6				2 x 8				2 x 10			
	spacing on center															
	12"	16"	19.2"	24"	12"	16"	19.2"	24"	12"	16"	19.2"	24"	12"	16"	19.2"	24"
Sel. Struc.	11-6	10-5	9-10	9-1	18-0	16-4	15-5	14-4	23-9	21-7	20-4	18-10	30-4	27-6	25-11	24-1
No.1 & Btr.	11-3	10-3	9-8	8-11	17-8	16-1	15-2	14-1	23-4	21-2	19-11	18-6	29-9	27-1	25-5	23-3
No.1	11-1	10-0	9-5	8-9	17-4	15-9	14-10	13-9	22-11	20-10	19-5	17-5	29-2	26-0	23-9	21-3
No.2	10-10	9-10	9-3	8-7	17-0	15-6	14-7	13-0	22-5	20-2	18-5	16-6	28-6	24-8	22-6	20-2
No.3	9-7	8-4	7-7	6-10	14-1	12-2	11-1	9-11	17-10	15-5	14-1	12-7	21-9	18-10	17-2	15-5

FLOOR JOISTS

40# LIVE LOAD 10# DEAD LOAD L/360

Span (feet and inches)

Grade	2 x 6				2 x 8				2 x 10				2 x 12			
	spacing on center															
	12"	16"	19.2"	24"	12"	16"	19.2"	24"	12"	16"	19.2"	24"	12"	16"	19.2"	24"
Sel. Struc.	11-4	10-4	9-8	9-0	15-0	13-7	12-10	11-11	19-1	17-4	16-4	15-2	23-3	21-1	19-10	18-5
No.1 & Btr.	11-2	10-2	9-6	8-10	14-8	13-4	12-7	11-8	18-9	17-0	16-0	14-9	22-10	20-9	19-1	17-1
No.1	10-11	9-11	9-4	8-8	14-5	13-1	12-4	11-0	18-5	16-5	15-0	13-5	22-0	19-1	17-5	15-7
No.2	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
No.3	8-11	7-8	7-0	6-3	11-3	9-9	8-11	8-0	13-9	11-11	10-11	9-9	16-0	13-10	12-7	11-3

FLOOR JOISTS (DECKS & BALCONIES)

60# LIVE LOAD 10# DEAD LOAD L/360

Span (feet and inches)

Grade	2 x 8				2 x 10				2 x 12				2 x 14			
	spacing on center															
	12"	16"	19.2"	24"	12"	16"	19.2"	24"	12"	16"	19.2"	24"	12"	16"	19.2"	24"
Sel. Struc.	13-1	11-11	11-2	10-5	16-8	15-2	14-3	13-3	20-3	18-5	17-4	16-1	23-11	21-9	20-2	18-0
No.1 & Btr.	12-10	11-8	11-0	10-2	16-5	14-11	13-11	12-5	19-11	17-8	16-1	14-5	22-9	19-9	18-0	16-1
No.1	12-7	11-5	10-5	9-4	16-1	13-11	12-8	11-4	18-7	16-1	14-9	13-2	20-10	18-0	16-5	14-8
No.2	12-4	10-10	9-10	8-10	15-3	13-2	12-0	10-9	17-8	15-4	14-0	12-6	19-9	17-1	15-7	13-11
No.3	9-6	8-3	7-6	6-9	11-8	10-1	9-2	8-3	13-6	11-8	10-8	9-6	15-1	13-1	11-11	10-8