



SPAN TABLE

Spans are from the 2021 International Residential Code

FLOOR JOISTS		
30 psf live load 20 psf dead load		
12"	16"	24"

CEILING JOISTS		
Uninhabitable Attic Area*		
20 psf live load 5 psf dead load		
12"	16"	24"

CEILING JOISTS		
Accessible Attic Area		
20 psf live load 10 psf dead load		
12"	16"	24"

RAFTERS		
Standard Roof Covering		
20 psf live load 10 psf dead load		
12"	16"	24"

RAFTERS		
Drywall Ceiling		
20 psf live load 10 psf dead load		
12"	16"	24"

HEM FIR

#1 GRADE	2 X 6
	2 X 8
	2 X 10
	2 X 12
#2 GRADE	2 X 6
	2 X 8
	2 X 10
	2 X 12
#3 GRADE	2 X 6
	2 X 8
	2 X 10
	2 X 12

11-7	10-6	9-2
15-3	13-10	12-1
19-5	17-8	14-10
23-7	21-1	17-2
11-0	10-0	8-9
14-6	13-2	11-4
18-6	16-10	13-10
22-6	19-8	16-1
9-8	8-5	6-10
12-4	10-8	8-8
15-0	13-0	10-7
17-5	15-1	12-4

19-1	17-4	15-2
25-2	22-10	19-10
		24-3
18-2	16-6	14-5
24-0	21-9	18-6
		22-7
15-10	13-9	11-2
20-1	17-5	14-2
24-6	21-3	17-4

15-2	13-7	11-1
19-10	17-2	14-0
24-3	21-0	17-1
14-5	12-8	10-4
18-6	16-0	13-1
22-7	19-7	16-0
11-2	9-8	7-11
14-2	12-4	10-0
17-4	15-0	12-3

16-8	15-2	12-4
22-0	19-2	15-8
	23-5	19-2
		22-2
15-11	14-2	11-7
20-8	17-11	14-8
25-3	21-11	17-10
	25-5	20-9
12-6	10-10	8-10
15-10	13-9	11-3
19-5	16-9	13-
22-6	19-6	15-11

15-2	13-9	12-0
19-11	18-1	15-8
25-5	23-1	19-2
		22-2
14-5	13-1	11-5
19-0	17-3	14-8
24-3	21-11	17-10
	25-5	20-9
12-6	10-10	8-10
15-10	13-9	11-3
19-5	16-9	13-8
22-6	19-6	15-11

SPRUCE-PINE-FIR

#1 GRADE	2 X 6
	2 X 8
	2 X 10
	2 X 12
#2 GRADE	2 X 6
	2 X 8
	2 X 10
	2 X 12
#3 GRADE	2 X 6
	2 X 8
	2 X 10
	2 X 12

11-3	10-3	8-11
14-11	13-6	11-6
19-0	17-2	14-1
23-0	19-11	16-3
11-3	10-3	8-11
14-11	13-6	11-6
19-0	17-2	14-1
23-0	19-11	16-3
9-8	8-5	6-10
12-4	10-8	8-8
15-0	13-0	10-7
17-5	15-1	12-4

18-8	16-11	14-9
24-7	22-4	18-9
		22-11
18-8	16-11	14-9
24-7	22-4	18-9
		22-11
15-10	13-9	11-2
20-1	17-5	14-2
24-6	21-3	17-4

14-9	12-10	10-6
18-9	16-3	13-3
22-11	19-10	16-3
14-9	12-10	10-6
18-9	16-3	13-3
22-11	19-10	16-3
11-2	9-8	7-11
14-2	12-4	10-0
17-4	15-0	12-3

16-3	14-4	11-9
21-0	18-2	14-10
25-8	22-3	18-2
	25-9	21-0
16-3	14-4	11-9
21-0	18-2	14-10
25-8	22-3	18-2
	25-9	21-0
12-6	10-10	8-10
15-10	13-9	11-3
19-5	16-9	13-8
22-6	19-6	15-11

14-9	13-5	11-9
19-6	17-9	14-10
24-10	22-3	18-2
	25-9	21-0
14-9	13-5	11-9
19-6	17-9	14-10
24-10	22-3	18-2
	25-9	21-0
12-6	10-10	8-10
15-10	13-9	11-3
19-5	16-9	13-8
22-6	19-6	15-11

Note: Check 2021 International Residential Code for all available lumber spans.