

ALLOWABLE SPAN TABLES FOR FLOOR JOISTS

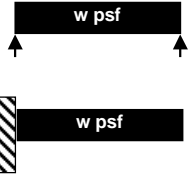
California Building Code 2007 Edition (CBC), NDS 2005

Floor Joists: Residential Interior Floors and Exterior Sundecks.
Residential Exterior Cantilevered Balconies.

Lumber: Douglas Fir-Larch, Surfaced-Dry condition (19% maximum moisture content).

Design Criteria: **Habitable Attics and Sleeping Areas Floors:**
Strength: 30# LL + 10# DL = 40# TL per Sq. Ft. No Ceiling below.
30# LL + 15# DL = 55# TL per Sq. Ft. With Ceiling below.
Deflection: L/360 on LL and L/240 on TL. 15% Repetitive Member Factor included where applicable.

Exterior Cantilevered Balconies:
Strength: 40# LL + 10# DL = 50# TL per Sq. Ft. No Ceiling below.
40# LL + 15# DL = 55# TL per Sq. Ft. With Ceiling below.
Deflection: L/360 on LL and L/240 on TL. 15% Repetitive Member Factor included where applicable.



HABITABLE ATTICS AND SLEEPING AREAS FLOORS (Simple Span)							
SIZE W x D	GRADE	NO CEILING (40#/sf)			WITH CEILING (55#/sf)		
		SPACING - INCHES			SPACING - INCHES		
		12	16	24	12	16	24
2 x 6	SS	12-3	11-3	9-9	12-3	11-3	9-9
	#1+	12-3	11-0	9-6	12-3	11-0	9-3
	#1	12-0	10-9	9-0	12-0	10-3	8-6
	#2	11-9	10-6	8-6	11-3	9-9	8-0
	#3	9-3	8-0	6-6	8-6	7-6	6-0
2 x 8	SS	16-3	14-9	13-0	16-3	14-9	13-0
	#1+	16-0	14-6	12-6	16-0	14-3	11-9
	#1	15-9	14-0	11-3	15-3	13-0	10-9
	#2	15-3	13-3	10-9	14-3	12-6	10-3
	#3	11-6	10-0	8-3	11-0	9-6	7-9
2 x 10	SS	21-0	19-0	16-6	21-0	19-0	16-0
	#1+	20-6	18-9	15-3	20-3	17-6	14-3
	#1	19-9	17-0	14-0	18-6	16-0	13-0
	#2	18-9	16-3	13-3	17-6	15-3	12-6
	#3	14-3	12-3	10-0	13-6	11-6	9-6
2 X 12	SS	25-6	23-0	19-9	25-6	22-9	18-6
	#1+	25-0	21-9	17-9	23-6	20-6	16-9
	#1	22-9	19-9	16-0	21-6	18-6	15-3
	#2	21-9	18-9	15-3	20-6	17-9	14-6
	#3	16-6	14-3	11-9	15-6	13-6	11-0
2 X 14	SS	30-0	27-0	22-0	29-6	25-6	20-9
	#1+	28-0	24-3	19-9	26-3	22-9	18-6
	#1	25-6	22-0	18-0	24-0	20-9	17-0
	#2	24-3	21-0	17-0	22-9	19-9	16-0
	#3	18-6	16-0	13-0	17-6	15-0	12-3

EXTERIOR CANTILEVERED BALCONIES							
SIZE W x D	GRADE	NO CEILING (50#/sf)			WITH CEILING (55#/sf)		
		SPACING - INCHES			SPACING - INCHES		
		12	16	24	12	16	24
2 x 6	SS	5-3	4-9	4-0	5-3	4-9	4-0
	#1+	5-0	4-9	4-0	5-0	4-9	4-0
	#1	5-0	4-6	4-0	5-0	4-6	4-0
	#2	5-0	4-6	4-0	5-0	4-6	4-0
	#3	4-9	4-3	3-9	4-9	4-3	3-9
2 x 8	SS	7-0	6-3	5-6	7-0	6-3	5-6
	#1+	6-9	6-3	5-3	6-9	6-3	5-3
	#1	6-9	6-0	5-3	6-9	6-0	5-3
	#2	6-6	6-0	5-3	6-6	6-0	5-3
	#3	6-3	5-9	5-0	6-3	5-9	5-0
2 x 10	SS	8-9	8-0	7-0	8-9	8-0	7-0
	#1+	8-9	8-0	7-0	8-9	8-0	7-0
	#1	8-6	7-9	6-9	8-6	7-9	6-9
	#2	8-3	7-6	6-6	8-3	7-6	6-6
	#3	8-0	7-3	6-3	8-0	7-3	6-3
2 X 12	SS	10-9	9-9	8-6	10-9	9-9	8-6
	#1+	10-6	9-9	8-6	10-6	9-9	8-6
	#1	10-6	9-6	8-3	10-6	9-6	8-3
	#2	10-3	9-3	8-0	10-3	9-3	8-0
	#3	9-9	8-9	7-9	9-9	8-9	7-9
2 X 14	SS	12-9	11-6	10-0	12-9	11-6	10-0
	#1+	12-6	11-3	10-0	12-6	11-3	10-0
	#1	12-3	11-3	9-9	12-3	11-3	9-9
	#2	12-0	11-0	9-6	12-0	11-0	9-6
	#3	11-6	10-6	9-0	11-6	10-6	9-0

SIZE W x D	GRADE	SPACING - INCHES			SPACING - INCHES		
		24	32	48	24	32	48
4 x 6	SS	13-0	11-9	10-3	13-0	11-9	10-3
	#1+	12-9	11-6	10-3	12-9	11-6	10-0
	#1	12-6	11-6	9-9	12-6	11-3	9-0
	#2	12-3	11-3	9-3	12-3	10-6	8-6
	#3	12-3	11-3	9-3	12-3	10-6	8-6
4 x 8	SS	17-3	15-9	13-9	17-3	15-9	13-9
	#1+	17-0	15-3	13-6	17-0	15-3	13-3
	#1	16-6	15-0	12-9	16-6	14-9	12-0
	#2	16-3	14-9	12-0	16-3	14-0	11-6
	#3	16-3	14-9	12-0	16-3	14-0	11-6
4 x 10	SS	22-0	20-0	17-6	22-0	20-0	17-6
	#1+	21-6	19-6	17-0	21-6	19-6	16-3
	#1	21-3	19-3	15-9	21-0	18-0	14-9
	#2	20-9	18-3	14-9	19-9	17-3	14-0
	#3	20-9	18-3	14-9	19-9	17-3	14-0
4 X 12	SS	26-9	24-3	21-3	26-9	24-3	21-0
	#1+	26-3	24-0	20-0	26-3	23-3	18-9
	#1	25-9	22-6	18-3	24-6	21-0	17-3
	#2	24-6	21-3	17-3	23-3	20-0	16-3
	#3	24-6	21-3	17-3	23-3	20-0	16-3
4 X 14	SS	31-6	28-9	25-0	31-6	28-9	23-9
	#1+	31-0	27-6	22-6	30-0	26-0	21-3
	#1	29-0	25-3	20-6	27-6	23-9	19-3
	#2	27-6	24-0	19-6	26-0	22-6	18-3
	#3	27-6	24-0	19-6	26-0	22-6	18-3

SIZE W x D	GRADE	SPACING - INCHES			SPACING - INCHES		
		24	32	48	24	32	48
4 x 6	SS	5-6	5-0	4-3	5-6	5-0	4-3
	#1+	5-6	5-0	4-3	5-6	5-0	4-3
	#1	5-3	4-9	4-3	5-3	4-9	4-3
	#2	5-3	4-9	4-0	5-3	4-9	4-0
	#3	5-3	4-9	4-0	5-3	4-9	4-0
4 x 8	SS	7-3	6-6	5-9	7-3	6-6	5-9
	#1+	7-3	6-6	5-9	7-3	6-6	5-9
	#1	7-0	6-3	5-6	7-0	6-3	5-6
	#2	7-0	6-3	5-6	7-0	6-3	5-6
	#3	7-0	6-3	5-6	7-0	6-3	5-6
4 x 10	SS	9-3	8-6	7-6	9-3	8-6	7-6
	#1+	9-3	8-3	7-3	9-3	8-3	7-3
	#1	9-0	8-3	7-0	9-0	8-3	7-0
	#2	8-9	8-0	7-0	8-9	8-0	7-0
	#3	8-9	8-0	7-0	8-9	8-0	7-0
4 X 12	SS	11-6	10-3	9-0	11-6	10-3	9-0
	#1+	11-3	10-3	8-9	11-3	10-3	8-9
	#1	11-0	10-0	8-9	11-0	10-0	8-9
	#2	10-9	9-9	8-6	10-9	9-9	8-6
	#3	10-9	9-9	8-6	10-9	9-9	8-6
4 X 14	SS	13-6	12-3	10-9	13-6	12-3	10-9
	#1+	13-3	12-0	10-6	13-3	12-0	10-6
	#1	13-0	11-9	10-3	13-0	11-9	10-3
	#2	12-9	11-6	10-0	12-9	11-6	10-0
	#3	12-9	11-6	10-0	12-9	11-6	10-0

Bending governs for spans enclosed by double lines. Shear governs for spans enclosed by solid lines. (***Bold Italics***)
Deflection for TL at L/360 governs for all other spans. (***Bold***)

**DIVISION OF BUILDING AND SAFETY
COUNTY OF VENTURA**

B & S
STD **B-43**

BUILDING OFFICIAL _____

Jim MacDonald

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