

# Span Calculation Comparison of SPFs and SPF **\*\***

## Basic Floor & Ceiling Joist Construction Applications

### Floor Joists Spans (feet-inches)

Deflection:  $l/360$

**30** psf Live Load - **10** psf Dead Load

Spacing →	12" o.c.		SPFs v. SPF (inches)	16" o.c.		SPFs v. SPF (inches)	24" o.c.		SPFs v. SPF (inches)
Grade ↓	SPFs	SPF		SPFs	SPF		SPFs	SPF	
<b>2x6</b>									
1	10-9	11-3	-6"	9-9	10-3	-6"	8-6	9-0	-6"
2	10-5	11-3	-10"	9-6	10-3	-9"	8-3	9-0	-9"
3	9-3	9-8	-5"	8-0	8-5	-5"	6-6	6-10	-4"
<b>2x8</b>									
1	14-2	14-11	-9"	12-10	13-6	-8"	11-3	11-6	-3"
2	13-9	14-11	-14"	12-6	13-6	-12"	10-10	11-6	-8"
3	11-8	12-4	-8"	10-1	10-8	-7"	8-3	8-8	-5"
<b>2x10</b>									
1	18-0	19-0	-12"	16-5	17-2	-9"	14-1	14-1	0
2	17-6	19-0	-18"	15-11	17-2	-15"	13-3	14-1	-10"
3	14-3	15-0	-9"	12-4	13-0	-8"	10-1	10-7	-6"
<b>2x12</b>									
1	21-11	23-0	-13"	19-11	19-11	0	16-3	16-3	0
2	21-4	23-0	-20"	18-9	19-11	-14"	15-4	16-3	-11"
3	16-6	17-5	-11"	14-4	15-1	-9"	11-8	12-4	-8"

**\*\*** Spans Calculated Using the American Wood Council's online Maximum Span Calculator for Wood Joists and Rafters.

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