

40 PSF LIVE LOAD & 10 PSF DEAD LOAD, L/360 (WET USE)

		Deck Joist Spans						
Simple Span:		8 ft	10 ft	12 ft	14 ft	16 ft	18 ft	20 ft
Simple Span + Cantilever:		6'+2'	8'+2'	10'+2'	12'+2'	14'+2'	16'+2'	18'+2'
Beam Type	Actual Size	Corresponding Deck Beam Spans (in inches)						
2x8 - 2 ply	3" x 7"	96	89	83	78	74	70	67
2x8 - 3 ply	4.5" x 7"	127	117	109	102	97	92	88
2x10 - 2 ply	3" x 9"	123	114	106	100	94	89	85
2x10 - 3 ply	4.5" x 9"	162	150	139	131	124	117	112
2x12 - 2 ply	3" x 11"	147	136	127	119	112	107	102
2x12 - 3 ply	4.5" x 11"	193	179	166	156	148	140	134

60 PSF LIVE LOAD & 10 PSF DEAD LOAD, L/360 (WET USE)

		Deck Joist Spans						
Simple Span:		8 ft	10 ft	12 ft	14 ft	16 ft	18 ft	20 ft
Simple Span + Cantilever:		6'+2'	8'+2'	10'+2'	12'+2'	14'+2'	16'+2'	18'+2'
Beam Type	Actual Size	Corresponding Deck Beam Spans (in inches)						
2x8 - 2 ply	3" x 7"	81	75	70	66	62	59	56
2x8 - 3 ply	4.5" x 7"	107	99	92	86	82	78	74
2x10 - 2 ply	3" x 9"	104	96	90	84	79	75	72
2x10 - 3 ply	4.5" x 9"	137	126	118	111	104	99	95
2x12 - 2 ply	3" x 11"	124	115	107	100	95	90	86
2x12 - 3 ply	4.5" x 11"	163	151	141	132	125	118	113

WET USE: Beams will be exposed to weather or moisture, such as uncovered decks or ground-contact applications. Moisture content could exceed 19%.

NOTES:

- TrueFrame Joist and Beams constructed from #1 Grade Southern Yellow Pine
- Beam span calculations are based on simple span and 2ft. cantilever joist configurations.
- Beam depth shall be greater than or equal to depth of joists with a flush beam condition.
- Bearing length must be at least 1.75".
- All tables are based on uniformly distributed loads at normal temperatures.
- Beams require support across their full width.
- TrueFrame Beam plies shall be fastened in accordance with 2024 IRC section R507.5
- Refer to IRC Table R507.2.3 for fastener specifications.
- For reference only. Specific structure design and loading should be by a registered engineer.

