

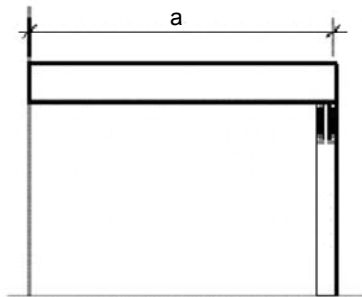
Joist Span Table

Based on No. 2 or better wood grades.
(Design load = 40#LL = 10#DL Deflection = 1/360)

	Ponderosa Pine			Southern Pine		
	12" O.C.	16" O.C.	24" O.C.	12" O.C.	16" O.C.	24" O.C.
2X6	9'-2"	8'-4"	7'-10"	10'-4"	9'-5"	7'-10"
2X8	12'-1"	11'-0"	9'-0"	13'-8"	12'-5"	10'-2"
2X10	16'-5"	13'-6"	11'-0"	17'-5"	16'-10"	13'-1"
2X12	18'-1"	15'-8"	12'-10"	21'-2"	10'-10"	15'-5"

Joists shall be supported laterally at the ends by full depth solid blocking not less than 2" nominal thickness. IRG R502.7

Samples Calculations for Using Joist Span and Beam Size Tables



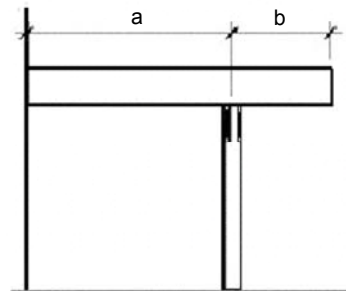
Refer to tables for joist and beam requirements.

Example $a=12'$ Post Spacing $=8'$

Use the Joist Span Table to find the acceptable joist sizes for a 12' span. 2X8's at 12" O.C., 2X10's at 16" O.C. or 2X12's at 24" O.C.

Use the Beam Table (see Exhibit 10) to find the 8' post spacing column.

With a 12' deck span, the beam may be either two 2X8's or two 2X10's, depending on the wood used.



Example $a=8'$, $b=2'$, Post Spacing $=10'$

Use "a" to determine joist size and "a+b" to determine beam size. The length of "b" is restricted by both the length of "a" and the size of the joists.

Refer to the Joist Span Table. For an 8' joist span, either 2X8's at 24" O.C. or 2X6's at 16" O.C. are acceptable.

For sizing the beam, use a joist length of 10' ($8'+2'$) and a post spacing of 10'. The beam table indicates that the beam may be either two 2X10's or two 2X12's, depending on the wood used.