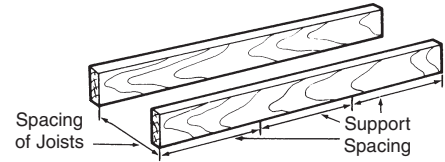


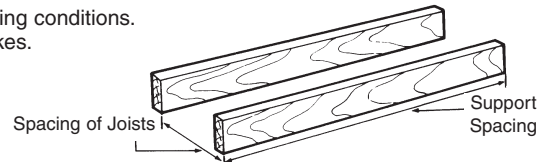
Technical Data — Joists



Safe Spacing, Inches, of Supports for Joists, Continuous Over Three or More Spans Based on use of No. 2 Grade Southern Pine or Douglas Fir-Larch						
Uniform Load, Pounds per Linear Foot (Equals Design Load, Pounds per Square Foot Times Spacing of Joists in feet.)	F _b varies with member			E' = 1,400,000 psi		
	Nominal Size Lumber, bxh (S4S) 19% Maximum Moisture Content					
	2x4	2x6	2x8	4x2	4x4	6x2
	F' b psi					
	1625	1440	1310	1790	1625	1650
75	81"	114"	140"	49"	100"	57"
100	76"	106"	131"	45"	93"	52"
125	69"	100"	124"	41"	88"	48"
150	63"	93"	117"	39"	84"	45"
175	58"	86"	109"	37"	81"	43"
200	55"	81"	102"	35"	79"	41"
225	52"	76"	96"	34"	76"	40"
250	49"	72"	91"	33"	74"	38"
275	47"	69"	87"	32"	71"	37"
300	45"	66"	83"	31"	68"	36"
325	43"	63"	80"	29"	65"	35"
350	42"	62"	77"	29"	64"	34"
375	40"	59"	74"	27"	61"	33"
400	39"	57"	72"	27"	59"	32"
450	36"	54"	68"	25"	56"	30"
500	35"	51"	64"	24"	53"	29"
550	33"	49"	61"	23"	50"	27"
600	32"	47"	59"	22"	48"	26"

Note: F_b and F_v shown above includes a 25% increase because of short term loading conditions. Horizontal shear stress adjustment assumes members have no splits, checks or shakes.

Support spacings are governed by bending, shear or deflection. Maximum deflection is $\ell/270$ of spacing, but not more than $1/4$ ". Contact Dayton/Richmond for safe spacings of supports for joist or studs used over two spans.



Safe Spacing, Inches, of Supports for Joists, Single Span Based on use of No. 2 Grade Southern Pine or Douglas Fir-Larch						
Uniform Load, Pounds per Linear Foot (Equals Design Load, Pounds per Square Foot Times Spacing of Joists in feet.)	F _b varies with member			E' = 1,400,000 psi		
	Nominal Size Lumber, bxh (S4S) 19% Maximum Moisture Content					
	2x4	2x6	2x8	4x2	4x4	6x2
	F' b psi					
	1625	1440	1310	1790	1625	1650
75	69"	97"	120"	40"	86"	46"
100	64"	91"	111"	36"	80"	42"
125	59"	86"	105"	34"	75"	39"
150	56"	82"	101"	32"	72"	37"
175	52"	77"	97"	30"	69"	35"
200	49"	72"	91"	29"	67"	33"
225	46"	68"	86"	28"	64"	32"
250	44"	65"	81"	27"	62"	31"
275	42"	62"	78"	26"	60"	30"
300	40"	59"	74"	25"	59"	29"
325	38"	57"	71"	24"	57"	28"
350	37"	55"	69"	24"	56"	28"
375	36"	53"	66"	23"	54"	27"
400	35"	51"	64"	23"	53"	27"
450	33"	48"	61"	22"	50"	25"
500	31"	46"	58"	21"	47"	25"
550	29"	44"	55"	20"	45"	24"
600	28"	42"	52"	19"	43"	23"

Note: F_b and F_v shown above includes a 25% increase because of short term loading conditions. Horizontal shear stress adjustment assumes members have no splits, checks or shakes.

Support spacings are governed by bending, shear or deflection. Maximum deflection is $\ell/270$ of spacing, but not more than $1/4$ ". Contact Dayton/Richmond for safe spacings of supports for joist or studs used over two spans.