

GENERAL AND TECHNICAL INFORMATION



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JOIST SPACING AND DOUBLE LEDGER SPACING

Lumber Joists - Safe Spacing of Supports (inches) - Continuous Over Three or More Spans						
Uniform Load (PLF)*	F _b varies with member		E = 1,400,000 psi		F _v = 225 psi	
	F _b psi					
	1625	1625	1440	1310	1790	1650
	Nominal Size Lumber, b x h (S4S) 19% Maximum Moisture Content					
	2x4	4x4	2x6	2x8	4x2	6x2
75	81	100	114	140	49	57
100	76	93	106	131	45	52
125	69	88	100	124	41	48
150	63	84	93	117	39	45
175	58	81	86	109	37	43
200	55	79	81	102	35	41
225	52	76	76	96	34	40
250	49	74	72	91	33	38
275	47	71	69	87	32	37
300	45	68	66	83	31	36
325	43	65	63	80	29	35
350	42	64	62	77	29	34
375	40	61	59	74	27	33
400	39	59	57	72	27	32
450	36	56	54	68	25	30
500	35	53	51	64	24	29
550	33	50	49	61	23	27
600	32	48	47	59	22	26

*Equals Design Load, Pounds per Square Foot Times Spacing of Joists in Feet
Source of Data: ACI

Lumber Double Ledgers - Safe Spacing of Supports (inches) - Single Span						
Uniform Load (PLF)*	F _b varies with member		E = 1,400,000 psi		F _v = 225 psi	
	F _b psi					
	1625	1440	1310	1150	1090	
	Nominal Size Lumber, b x h (S4S) 19% Maximum Moisture Content					
	2x4	2x6	2x8	2x10	2x12	
600	40	59	74	89	105	
800	35	51	64	77	91	
1000	31	46	58	69	81	
1200	28	42	52	63	74	
1400	26	39	49	58	69	
1600	24	36	45	54	64	
1800	23	34	43	51	61	
2000	22	32	41	49	58	
2200	21	31	39	46	55	
2400	20	30	37	44	53	
2600	19	28	36	43	50	
2800	18	27	34	41	49	
3000	18	26	33	40	47	
3200	17	26	32	38	45	
3400	17	25	31	37	44	
3600	16	24	30	36	43	
3800	16	23	29	35	42	
4000	15	23	29	34	41	

*Equals Design Load, Pounds per Square Foot Times Spacing of Joists in Feet
Source of Data: ACI