

# GENERAL AND TECHNICAL INFORMATION



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## PLYWOOD DECKING AND JOIST SPACING

Plywood Decking Safe Loading (PSF) - Supports Continuous Over Three or More Spans						
Support Spacing (in.)	Plywood Used Strong Way (Face Grain Perpendicular to Supports)			Plywood Used Weak Way (Face Grain Parallel to Supports)		
	1/2" (5 ply)	5/8" (6 ply)	3/4" (7 ply)	1/2" (5 ply)	5/8" (6 ply)	3/4" (7 ply)
4	2945	3270	4110	1565	1770	2325
8	970	1260	1580	470	635	895
12	430	575	730	195	280	490
16	230	325	410	--	120	270
19.2	135	210	285	--	--	155
24	--	110	160	--	--	100

Deflection Limited to 1/270th of Span. Source of Data: APA

Lumber Joists Safe Spacing of Supports (Inches) - Single Span						
Uniform Load (PLF)*	F <sub>b</sub> varies with member			E = 1,400,000 psi	F <sub>v</sub> = 225 psi	
	F <sub>b</sub> psi					
	1625	1440	1310	1500	1500	1625
	Nominal Size Lumber, b x h (S4S) 19% Maximum Moisture Content					
	2x4	2x6	2x8	2x10	2x12	4x4
75	69	97	120	145	168	86
100	64	91	111	140	162	80
125	59	86	105	134	155	75
150	56	82	101	129	149	72
175	52	77	97	123	143	69
200	49	72	91	118	137	67
225	46	68	86	113	133	64
250	44	65	81	109	130	62
275	42	62	78	105	126	60
300	40	59	74	101	123	59
325	38	57	71	97	119	57
350	37	55	69	94	115	56
375	36	53	66	91	111	54
400	35	51	64	88	107	53
450	33	48	61	83	101	50
500	31	46	58	78	95	47
550	29	44	55	75	91	45
600	28	42	52	72	87	43

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