

Allowable Live Loads (psf) - 18" Open Joist 2000 Live Load Deflection L/ 360

Joist Depth			Dead Load (psf)				Dead Load (psf)				Dead Load (psf)				Dead Load (psf)			
18 in			15	15	15	15	20	20	20	20	25	25	25	25	30	30	30	30
Chord DIM	Lumber Grade	Length (ft)	Spacing (in)				Spacing (in)				Spacing (in)				Spacing (in)			
			12	16	19.2	24	12	16	19.2	24	12	16	19.2	24	12	16	19.2	24
4x2	#2 SPF	10	382	285	237	188	380	283	235	186	378	281	233	184	377	280	231	183
4x2	#2 SPF	11	347	259	215	171	345	257	213	169	343	255	211	167	341	253	209	165
4x2	#2 SPF	12	318	237	196	156	316	235	194	154	314	233	193	152	312	231	191	150
4x2	#2 SPF	13	293	218	181	144	291	216	179	142	289	214	177	140	287	212	175	138
4x2	#2 SPF	14	271	202	167	133	269	200	166	131	268	198	164	129	266	196	162	127
4x2	#2 SPF	15	253	188	156	124	251	186	154	122	249	184	152	120	247	183	150	118
4x2	#2 SPF	16	237	176	146	116	235	174	144	114	233	172	142	112	231	170	140	110
4x2	#2 SPF	17	222	165	137	108	221	164	135	107	219	162	133	105	217	160	131	103
4x2	#2 SPF	18	210	156	129	102	208	154	127	100	206	152	125	98	204	150	123	96
4x2	#2 SPF	19	198	147	122	96	197	146	120	95	195	144	118	93	193	142	116	91
4x2	#2 SPF	20	188	140	116	91	186	138	114	89	184	136	112	88	183	134	110	86
4x2	#2 SPF	21	179	133	110	87	177	131	108	85	175	129	106	83	173	127	104	81
4x2	#2 SPF	22	171	127	105	82	169	125	103	81	167	123	101	79	165	121	99	77
4x2	2100 SPF	23	137	103	85	68	137	103	85	66	137	101	83	64	136	100	81	63
4x2	2100 SPF	24	131	98	82	65	131	98	81	63	131	97	79	61	130	95	77	59
4x2	2100 SPF	25	126	94	79	62	126	94	77	60	126	93	76	59	125	91	74	57
4x2	2100 SPF	26	121	91	76	60	121	90	74	58	121	89	72	56	119	87	70	54
4x2	2400 SPF	27	109	81	66	52	108	79	64	50	106	77	63	48	104	75	61	46
4x2	2400 SPF	28	105	78	64	50	104	76	62	48	102	74	60	46	100	72	58	44
4x2	2400 SPF	29	101	75	61	48	100	73	60	46	98	71	58	44	96	69	56	42
4x2	2400 SPF	30	77	58	48	38	77	58	47	36	77	57	46	35	77	55	44	33
4x2	2400 SPF	31	75	56	47	37	75	56	46	35	75	54	44	33	74	53	42	31

- 1) Table is based on repetitive member use installed in a floor or roof system with minimum 5/8"-inch sheathing attached to the top flanges.
- 2) No increase allowable for repetitive member use or duration of load allowed.
- 3) Allowable load values in the table must be reduced if repetitive member conditions are not met (20 percent for 3x2 and 13 percent for 4x2).
- 3) Loads noted in the table are limited by live load deflection and total load deflection noted.
- 4) Manufactured length refers to overall length which includes the possibility of a 5 1/2-inch bearing on both ends. To calculate the allowable "clear span" subtract 11 inches from the tabulated manufactured length.