

Allowable Live Loads (psf) - 20" Open Joist 2000 Live Load Deflection L/ 480

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	273	205	171	137	273	205	171	137	273	205	171	137	273	205	171	137
4x2	#2 SPF	11	249	186	155	124	249	186	155	124	249	186	155	124	249	186	155	124
4x2	#2 SPF	12	228	171	142	114	228	171	142	114	228	171	142	114	228	171	142	114
4x2	#2 SPF	13	210	158	131	105	210	158	131	105	210	158	131	105	210	158	131	105
4x2	#2 SPF	14	195	146	122	98	195	146	122	98	195	146	122	98	195	146	122	98
4x2	#2 SPF	15	182	137	114	91	182	137	114	91	182	137	114	91	182	137	114	91
4x2	#2 SPF	16	171	128	107	85	171	128	107	85	171	128	107	85	171	128	107	85
4x2	#2 SPF	17	161	121	101	80	161	121	101	80	161	121	101	80	161	121	101	80
4x2	#2 SPF	18	152	114	95	76	152	114	95	76	152	114	95	76	152	114	95	76
4x2	#2 SPF	19	144	108	90	72	144	108	90	72	144	108	90	72	144	108	90	72
4x2	#2 SPF	20	137	103	85	68	137	103	85	68	137	103	85	68	137	103	85	68
4x2	#2 SPF	21	130	98	81	65	130	98	81	65	130	98	81	65	130	98	81	65
4x2	#2 SPF	22	124	93	78	62	124	93	78	62	124	93	78	62	124	93	78	62
4x2	2100 SPF	23	110	82	69	55	110	82	69	55	110	82	69	55	110	82	69	55
4x2	2100 SPF	24	105	79	66	53	105	79	66	53	105	79	66	53	105	79	66	53
4x2	2100 SPF	25	101	76	63	51	101	76	63	51	101	76	63	51	101	76	63	51
4x2	2100 SPF	26	97	73	61	49	97	73	61	49	97	73	61	49	97	73	61	49
4x2	2400 SPF	27	85	64	53	43	85	64	53	43	85	64	53	43	85	64	53	43
4x2	2400 SPF	28	82	62	51	41	82	62	51	41	82	62	51	41	82	62	51	41
4x2	2400 SPF	29	79	60	50	40	79	60	50	40	79	60	50	40	79	60	50	40
4x2	2400 SPF	30	77	58	48	38	77	58	48	38	77	58	48	38	77	58	48	38
4x2	2400 SPF	31	62	46	39	31	62	46	39	31	62	46	39	29	62	46	37	28
4x2	2400 SPF	32	60	45	37	30	60	45	37	30	60	45	37	28	60	45	36	26

- 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.