

Allowable Live Loads (psf) - 20" Open Joist 2000 Live Load Deflection L/ 360

Joist Depth			Dead Load (psf)				Dead Load (psf)				Dead Load (psf)				Dead Load (psf)			
20 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	375	282	235	188	375	282	235	188	375	282	235	188	375	282	235	188
4x2	#2 SPF	11	341	256	213	171	341	256	213	171	341	256	213	171	341	256	213	171
4x2	#2 SPF	12	313	235	196	156	313	235	196	156	313	235	196	156	313	235	196	156
4x2	#2 SPF	13	289	217	180	144	289	217	180	144	289	217	180	144	289	217	180	144
4x2	#2 SPF	14	268	201	168	134	268	201	168	134	268	201	168	134	268	201	168	133
4x2	#2 SPF	15	250	188	156	125	250	188	156	125	250	188	156	125	250	188	156	123
4x2	#2 SPF	16	235	176	147	117	235	176	147	117	235	176	147	116	235	176	146	115
4x2	#2 SPF	17	221	166	138	110	221	166	138	110	221	166	138	109	221	166	137	107
4x2	#2 SPF	18	209	156	130	104	209	156	130	104	209	156	130	102	209	156	129	101
4x2	#2 SPF	19	198	148	123	99	198	148	123	98	198	148	123	97	198	148	121	95
4x2	#2 SPF	20	188	141	117	94	188	141	117	93	188	141	116	91	188	140	115	89
4x2	#2 SPF	21	179	134	112	89	179	134	112	88	179	134	110	86	179	133	109	85
4x2	#2 SPF	22	171	128	107	85	171	128	107	84	171	128	105	82	171	126	103	80
4x2	2100 SPF	23	142	105	87	68	140	103	85	66	138	101	83	64	136	100	81	63
4x2	2100 SPF	24	136	101	83	65	134	99	81	63	132	97	79	61	130	95	77	59
4x2	2100 SPF	25	130	96	79	62	128	94	77	60	127	93	76	59	125	91	74	57
4x2	2100 SPF	26	125	92	76	60	123	90	74	58	121	89	72	56	119	87	70	54
4x2	2100 SPF	27	115	85	70	55	113	83	68	53	111	81	66	51	110	79	64	49
4x2	2100 SPF	28	112	82	68	53	110	81	66	51	108	79	64	49	106	77	62	47
4x2	2400 SPF	29	103	76	62	49	101	74	60	47	99	72	58	45	97	70	56	43
4x2	2400 SPF	30	99	73	60	47	97	71	58	45	95	69	56	43	93	67	54	41
4x2	2400 SPF	31	72	53	43	33	70	51	41	31	68	49	39	29	66	47	37	28
4x2	2400 SPF	32	70	51	41	32	68	49	40	30	66	47	38	28	64	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.