

## Floor Joist Load Tables

### Table Notes

- 1 Loads are assumed to be uniformly distributed over entire span(s).
- 2 Load values are based on continuous support of the compression flange over the full length of the joist and the tension flange is laterally braced at a maximum spacing of 8'-0".
- 3 Joists must be braced against rotation at all supports.
- 4 End shear and web crippling resistances are not reduced for punchouts.
- 5 End web crippling check is based on a 3.5" bearing length. Where allowable spans are followed by (\*), web stiffeners are required at end supports.
- 6 Web stiffeners are required at interior supports.

### Bridging Recommendations

Bracing components shall be designed based on Section C2 of S136-16 with the minimum required number of rows as shown below. Additional bridging rows may be required by design.

<b>Span (ft)</b>	<b>Minimum Number of Rows</b>
up to 16	1 at mid span
16 to 24	2 at 1/3 point
24 to 32	3 at 1/4 point
32 to 40	4 at 1/5 point

**FLOOR JOIST LOAD TABLE**  
**Uniformly Distributed Single Span Loads (psf) with  $K_p = 0$**

**Strength - Factored Loads**

**L/360 - Specified Loads**

Span (ft)	Section Design Criteria	600S162-43			600S162-54			600S162-68			600S162-97			600S200-43			600S200-54			600S200-68			600S200-97			
		Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			
		12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	
8	Strength	203*	152*	101*	360*	270*	180*	486*	364*	243*			371	232*	174*	116*	411*	308*	205*			416*	277*			430*
	L/360	197	147	98	243	182	121	300	225	150			204	228	171	114	282	212	141			262	174			239
9	Strength	160	120	80	284*	213*	142*	384	288	192		440	293	183*	137*	91*	325*	243*	162*	438*	329*	219*			339	
	L/360	138	103	69	171	128	85	210	158	105		215	143	160	120	80	198	148	99	245	184	122			167	
10	Strength	130	97	65	230	173	115	311	233	155	476	357	238	148	111	74	263*	197*	131*	355	266	177			413	
	L/360	101	75	50	124	93	62	153	115	76	209	156	104	117	87	58	144	108	72	178	134	89			183	
11	Strength	107	80	53	190	142	95	257	192	128	393	295	196	122	92	61	217	163*	108	293	220	146	455	341	227	
	L/360	75	56	37	93	70	46	115	86	57	157	117	78	87	65	43	108	81	54	134	100	67	183	137	91	
12	Strength	90	67	45	160	120	80	216	162	108	330	247	165	103	77	51	182	137	91	246	185	123	382	286	191	
	L/360	58	43	29	72	54	36	88	66	44	121	90	60	67	50	33	83	62	41	103	77	51	141	106	70	
13	Strength	76	57	38	136	102	68	184	138	92	281	211	140	87	65	43	155	116	77	210	157	105	325	244	162	
	L/360	45	34	22	56	42	28	69	52	34	95	71	47	53	39	26	65	49	32	81	61	40	111	83	55	
14	Strength	66	49	33	117	88	58	158	119	79	242	182	121	75	56	37	134	100	67	181	135	90	280	210	140	
	L/360	36	27	18	45	34	22	56	42	28	76	57	38	42	31	21	52	39	26	65	48	32	89	66	44	
15	Strength	57	43	28	102	76	51	138	103	69	211	158	105	66	49	33	117	87	58	157	118	78	244	183	122	
	L/360	29	22	14	36	27	18	45	34	22	62	46	31	34	26	17	42	32	21	52	39	26	72	54	36	
16	Strength	50	38	25	90	67	45	121	91	60	185	139	92	58	43	29	102	77	51	138	104	69	215	161	107	
	L/360	24	18	12	30	22	15	37	28	18	51	38	25	28	21	14	35	26	17	43	32	21	59	44	29	
17	Strength	44	33	22	79	59	39	107	80	53	164	123	82	51	38	25	91	68	45	122	92	61	190	142	95	
	L/360	20	15	10	25	19	12	31	23	15	42	31	21	23	17	11	29	22	14	36	27	18	49	37	24	
18	Strength	40	30		71	53	35	96	72	48	146	110	73	45	34	22	81	60	40	109	82	54	169	127	84	
	L/360	17	12		21	16	10	26	19	13	35	26	17	20	15	10	24	18	12	30	23	15	41	31	20	
19	Strength	36	27		63	47		86	64	43	131	98	65	41	30		72	54	36	98	73	49	152	114	76	
	L/360	14	11		18	13		22	16	11	30	22	15	17	12		21	15	10	26	19	13	35	26	17	
20	Strength	32			57	43		77	58		119	89	59	37	27		65	49		88	66	44	137	103	68	
	L/360	12			15	11		19	14		26	19	13	14	10		18	13		22	16	11	30	22	15	
21	Strength	29			52	39		70	52		107	80	53	33			59	44		80	60		124	93	62	
	L/360	10			13	10		16	12		22	16	11	12			15	11		19	14		26	19	13	
22	Strength				47			64	48		98	73		30			54	40		73	55		113	85	56	
	L/360				11			14	10		19	14		10			13	10		16	12		22	17	11	
23	Strength				43			58			89	67					49			67	50		104	78	52	
	L/360				10			12			17	12					11			14	11		20	15	10	
24	Strength							54			82	61					45			61			95	71		
	L/360							11			15	11					10			12			17	13		
25	Strength										76	57								56			88	66		
	L/360										13	10								11			15	11		
26	Strength										70									52			81	61		
	L/360										11									10			13	10		
27	Strength										65												75			
	L/360										10												12			
28	Strength																						70			
	L/360																						11			
29	Strength																						65			
	L/360																						10			
30	Strength																									
	L/360																									

**NOTES:**

\* Web stiffeners required at ends of members.

1) Values greater than 500 psf and less than 10 psf are not shown.

2) For other deflection limits such as L/480, multiply the L/360 uniform specified loads by the following factor:

Deflection limit	Factor
L/480	360/480 = 0.75

**FLOOR JOIST LOAD TABLE**  
**Uniformly Distributed Single Span Loads (psf) with  $K_{\phi} = 0$**

Strength - Factored Loads		L/360 - Specified Loads																							
Span (ft)	Section Design Criteria	600S250-43			600S250-54			600S250-68			600S250-97			600S300-43			600S300-54			600S300-68			600S300-97		
		Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)		
		12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24
8	Strength	245*	184*	122*	432*	324*	216*		439*	293*			461*	254*	190*	127*	446*	335*	223*		457*	304*			485*
	L/360	260	195	130	311	233	155		298	198			276	280	210	140	335	251	167		323	215			308
9	Strength	194*	145*	97*	341*	256*	170*	463*	347*	231*			365	200*	150*	100*	353*	264*	176*	481*	361*	240*			383*
	L/360	183	137	91	219	164	109	279	209	139			194	197	147	98	235	176	117	302	227	151			216
10	Strength	157	117	78	276*	207*	138*	375*	281*	187*		443	295	162*	122*	81*	286*	214*	143*	390*	292*	195*		465	310
	L/360	133	100	66	159	119	79	203	152	101		212	141	143	107	71	171	128	85	220	165	110		237	158
11	Strength	130	97	65	228*	171*	114*	310	232	155	488	366	244	134	100	67	236*	177*	118*	322	241	161		385	256
	L/360	100	75	50	119	89	59	152	114	76	212	159	106	108	81	54	129	96	64	165	124	82		178	118
12	Strength	109	81	54	192	144	96	260	195	130	410	307	205	112	84	56	198	148	99	270	203	135	431	323	215
	L/360	77	57	38	92	69	46	117	88	58	163	122	81	83	62	41	99	74	49	127	95	63	183	137	91
13	Strength	93	69	46	163	122	81	222	166	111	349	262	174	96	72	48	169	126	84	230	173	115	367	275	183
	L/360	60	45	30	72	54	36	92	69	46	128	96	64	65	49	32	78	58	39	100	75	50	143	107	71
14	Strength	80	60	40	141	105	70	191	143	95	301	226	150	82	62	41	145	109	72	198	149	99	317	237	158
	L/360	48	36	24	58	43	29	74	55	37	103	77	51	52	39	26	62	46	31	80	60	40	115	86	57
15	Strength	69	52	34	122	92	61	166	125	83	262	197	131	72	54	36	127	95	63	173	129	86	276	207	138
	L/360	39	29	19	47	35	23	60	45	30	83	62	41	42	31	21	50	38	25	65	49	32	93	70	46
16	Strength	61	46	30	108	81	54	146	109	73	230	173	115	63	47	31	111	83	55	152	114	76	242	182	121
	L/360	32	24	16	38	29	19	49	37	24	69	51	34	35	26	17	41	31	20	53	40	26	77	57	38
17	Strength	54	40	27	95	71	47	129	97	64	204	153	102	56	42	28	98	74	49	134	101	67	214	161	107
	L/360	27	20	13	32	24	16	41	31	20	57	43	28	29	21	14	34	26	17	44	33	22	64	48	32
18	Strength	48	36	24	85	64	42	115	86	57	182	136	91	50	37	25	88	66	44	120	90	60	191	143	95
	L/360	22	17	11	27	20	13	34	26	17	48	36	24	24	18	12	29	22	14	37	28	18	54	40	27
19	Strength	43	32		76	57	38	103	77	51	163	122	81	45	33	22	79	59	39	108	81	54	172	129	86
	L/360	19	14		23	17	11	29	22	14	41	30	20	20	15	10	25	18	12	32	24	16	46	34	23
20	Strength	39	29		69	51		93	70	46	147	110	73	40	30		71	53	35	97	73	48	155	116	77
	L/360	16	12		19	14		25	19	12	35	26	17	17	13		21	16	10	27	20	13	39	29	19
21	Strength	35	26		62	47		85	63	42	134	100	67	36	27		64	48		88	66	44	140	105	70
	L/360	14	10		17	12		21	16	10	30	22	15	15	11		18	13		23	17	11	34	25	17
22	Strength	32			57	42		77	58		122	91	61	33	25		59	44		80	60	40	128	96	64
	L/360	12			14	11		19	14		26	19	13	13	10		16	12		20	15	10	29	22	14
23	Strength	29			52			70	53		111	83	55	30			54	40		73	55		117	88	58
	L/360	10			13			16	12		23	17	11	11			14	10		18	13		25	19	12
24	Strength				48			65	48		102	76	51	28			49			67	50		107	80	53
	L/360				11			14	11		20	15	10	10			12			15	11		22	17	11
25	Strength				44			60			94	70					45			62	46		99	74	49
	L/360				10			13			18	13					10			14	10		20	15	10
26	Strength							55			87	65								57			91	68	
	L/360							11			16	12								12			17	13	
27	Strength							51			81	60								53			85	63	
	L/360							10			14	10								11			16	12	
28	Strength										75									49			79	59	
	L/360										12									10			14	10	
29	Strength										70												73		
	L/360										11												12		
30	Strength										65												69		
	L/360										10												11		
29	Strength																								
	L/360																								
30	Strength																								
	L/360																								

**NOTES:**

\* Web stiffeners required at ends of members.

1) Values greater than 500 psf and less than 10 psf are not shown.

2) For other deflection limits such as L/480, multiply the L/360 uniform specified loads by the following factor:

Deflection limit	Factor
L/480	360/480 = 0.75

**FLOOR JOIST LOAD TABLE**  
**Uniformly Distributed Single Span Loads (psf) with  $K_p = 0$**

Strength - Factored Loads		L/360 - Specified Loads																										
Span (ft)	Section Design Criteria	800S162-43			800S162-54			800S162-68			800S162-97			800S200-43			800S200-54			800S200-68			800S200-97					
		Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)					
		12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24			
8	Strength	276*	207*	138*	490*	367*	245*							317*	238*	158*				422*	281*					384*		
	L/360	381	286	190	474	355	237							451	338	225				419	279					346		
9	Strength	218*	163*	109*	387*	290*	193*				398*	265*		423*	251*	188*	125*			445*	333*	222*				455*	303*	481*
	L/360	268	201	134	333	249	166				316	210		290	317	237	158			393	294	196				365	243	335
10	Strength	176*	132*	88*	314*	235*	157*	430*	322*	215*				343*	203*	152*	101*			360*	270*	180*	492*	369*	246*			390*
	L/360	195	146	97	242	182	121	307	230	153				211	231	173	115			286	215	143	355	266	177			244
11	Strength	146*	109*	73*	259*	194*	129*	355*	266*	177*				425	283	168*	126*	84*		298*	223*	149*	406*	304*	203*			483*
	L/360	146	110	73	182	136	91	231	173	115				238	159	173	130	86		215	161	107	266	200	133			275
12	Strength	122	92	61	218*	163*	109*	298*	223*	149*	476	357	238	141*	105*	70*	250*	187*	125*	341*	256*	170*				406	270	
	L/360	113	84	56	140	105	70	177	133	88	245	183	122	133	100	66	165	124	82	205	154	102				212	141	
13	Strength	104	78	52	185*	139*	92*	254	190	127	406	304	203	120*	90*	60*	213*	160*	106*	291*	218*	145*	461	346	230			
	L/360	88	66	44	110	82	55	139	104	69	192	144	96	105	78	52	130	97	65	161	121	80	222	166	111			
14	Strength	90	67	45	160	120	80	219	164	109	350	262	175	103	77	51	184*	138*	92*	251*	188*	125*	397	298	198			
	L/360	71	53	35	88	66	44	112	84	56	154	115	77	84	63	42	104	78	52	129	97	64	178	133	89			
15	Strength	78	58	39	139	104	69	191	143	95	305	228	152	90	67	45	160*	120*	80*	218	164	109	346	259	173			
	L/360	57	43	28	71	53	35	91	68	45	125	94	62	68	51	34	84	63	42	105	78	52	144	108	72			
16	Strength	69	51	34	122	91	61	167	125	83	268	201	134	79	59	39	140	105	70	192	144	96	304	228	152			
	L/360	47	35	23	59	44	29	75	56	37	103	77	51	56	42	28	69	52	34	86	65	43	119	89	59			
17	Strength	61	45	30	108	81	54	148	111	74	237	178	118	70	52	35	124	93	62	170	127	85	269	202	134			
	L/360	39	29	19	49	37	24	62	46	31	86	64	43	47	35	23	58	43	29	72	54	36	99	74	49			
18	Strength	54	40	27	96	72	48	132	99	66	211	158	105	62	47	31	111	83	55	151	113	75	240	180	120			
	L/360	33	25	16	41	31	20	52	39	26	72	54	36	39	29	19	49	36	24	60	45	30	83	62	41			
19	Strength	48	36	24	86	65	43	119	89	59	190	142	95	56	42	28	99	74	49	136	102	68	216	162	108			
	L/360	28	21	14	35	26	17	44	33	22	61	46	30	33	25	16	41	31	20	51	38	25	71	53	35			
20	Strength	44	33	22	78	58	39	107	80	53	171	128	85	50	38	25	90	67	45	123	92	61	195	146	97			
	L/360	24	18	12	30	22	15	38	28	19	52	39	26	28	21	14	35	26	17	44	33	22	61	45	30			
21	Strength	40	30	20	71	53	35	97	73	48	155	116	77	46	34	23	81	61	40	111	83	55	176	132	88			
	L/360	21	15	10	26	19	13	33	24	16	45	34	22	24	18	12	30	23	15	38	28	19	52	39	26			
22	Strength	36	27		64	48	32	88	66	44	141	106	70	42	31	21	74	55	37	101	76	50	161	120	80			
	L/360	18	13		22	17	11	28	21	14	39	29	19	21	16	10	26	20	13	33	25	16	45	34	22			
23	Strength	33	25		59	44		81	60	40	129	97	64	38	28		68	51	34	93	69	46	147	110	73			
	L/360	16	12		19	14		25	18	12	34	26	17	19	14		23	17	11	29	21	14	40	30	20			
24	Strength	30	23		54	40		74	55	37	119	89	59	35	26		62	46	31	85	64	42	135	101	67			
	L/360	14	10		17	13		22	16	11	30	22	15	16	12		20	15	10	25	19	12	35	26	17			
25	Strength	28			50	37		68	51		109	82	54	32	24		57	43		78	59	39	124	93	62			
	L/360	12			15	11		19	14		27	20	13	14	11		18	13		22	17	11	31	23	15			
26	Strength	26			46	34		63	47		101	76	50	30			53	40		72	54	36	115	86	57			
	L/360	11			13	10		17	13		24	18	12	13			16	12		20	15	10	27	20	13			
27	Strength				43			58	44		94	70	47	27			49	37		67	50		106	80	53			
	L/360				12			15	11		21	16	10	11			14	10		18	13		24	18	12			
28	Strength				40			54	41		87	65		25			46			62	47		99	74	49			
	L/360				11			14	10		19	14		10			13			16	12		22	16	11			
29	Strength							51			81	61					42			58	43		92	69	46			
	L/360							12			17	13					11			14	10		20	15	10			
30	Strength							47			76	57					40			54			86	64				
	L/360							11			15	11					10			13			18	13				

**NOTES:**

\* Web stiffeners required at ends of members.

1) Values greater than 500 psf and less than 10 psf are not shown.

2) For other deflection limits such as L/480, multiply the L/360 uniform specified loads by the following factor:

Deflection limit	Factor
L/480	360/480 = 0.75

**FLOOR JOIST LOAD TABLE**  
**Uniformly Distributed Single Span Loads (psf) with  $K_{\phi} = 0$**

Strength - Factored Loads										L/360 - Specified Loads																
Section		800S250-43			800S250-54			800S250-68			800S250-97			800S300-43			800S300-54			800S300-68			800S300-97			
Span (ft)	Design Criteria	Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			
		12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	
8	Strength		250*	167*		442*	295*			404*				251*	167*		455*	303*			418*					
	L/360		381	254		458	305			389				408	272		489	326			419					
9	Strength	264*	198*	132*	466*	349*	233*		479*	319*			271*	203*	135*	479*	359*	239*		495*	330*					
	L/360	357	268	178	428	321	214		410	273			382	287	191	458	343	229		441	294					
10	Strength	213*	160*	106*	378*	283*	189*		388*	258*			416*	220*	165*	110*	388*	291*	194*		401*	267*			433*	
	L/360	260	195	130	312	234	156		299	199			278	278	209	139	334	250	167		321	214			307	
11	Strength	176*	132*	88*	312*	234*	156*	428*	321*	214*			344*	181*	136*	90*	321*	240*	160*	442*	331*	221*			358*	
	L/360	195	146	97	234	176	117	299	224	149			209	209	157	104	251	188	125	322	241	161			231	
12	Strength	148*	111*	74*	262*	196*	131*	359*	269*	179*			434*	289*	152*	114*	76*	269*	202*	134*	371*	278*	185*		451*	300*
	L/360	150	113	75	180	135	90	230	173	115			242	161	161	121	80	193	145	96	248	186	124		267	178
13	Strength	126*	94*	63*	223*	167*	111*	306*	229*	153*	493	369	246	130*	97*	65*	229*	172*	114*	316*	237*	158*			384*	256*
	L/360	118	89	59	142	106	71	181	136	90	253	190	126	126	95	63	152	114	76	195	146	97			210	140
14	Strength	109*	81	54	192*	144*	96*	264*	198*	132*	425	318	212	112*	84*	56*	198*	148*	99*	273*	204*	136*	442	331	221	
	L/360	95	71	47	113	85	56	145	108	72	203	152	101	101	76	50	121	91	60	156	117	78	224	168	112	
15	Strength	95	71	47	168*	126*	84*	230	172	115	370	277	185	97	73	48	172*	129*	86*	237*	178*	118*	385	288	192	
	L/360	77	57	38	92	69	46	118	88	59	165	123	82	82	61	41	99	74	49	127	95	63	182	136	91	
16	Strength	83	62	41	147*	110*	73*	202	151	101	325	244	162	85	64	42	151*	113*	75*	209	156	104	338	253	169	
	L/360	63	47	31	76	57	38	97	73	48	136	102	68	68	51	34	81	61	40	104	78	52	150	112	75	
17	Strength	74	55	37	130	98	65	179	134	89	288	216	144	76	57	38	134	100	67	185	138	92	299	224	149	
	L/360	53	39	26	63	47	31	81	60	40	113	85	56	56	42	28	68	51	34	87	65	43	125	94	62	
18	Strength	66	49	33	116	87	58	159	119	79	257	192	128	67	50	33	119	89	59	165	123	82	267	200	133	
	L/360	44	33	22	53	40	26	68	51	34	95	71	47	47	35	23	57	42	28	73	55	36	105	79	52	
19	Strength	59	44	29	104	78	52	143	107	71	230	173	115	60	45	30	107	80	53	148	111	74	240	180	120	
	L/360	38	28	19	45	34	22	58	43	29	81	61	40	40	30	20	48	36	24	62	46	31	89	67	44	
20	Strength	53	40	26	94	70	47	129	97	64	208	156	104	55	41	27	97	72	48	133	100	66	216	162	108	
	L/360	32	24	16	39	29	19	49	37	24	69	52	34	34	26	17	41	31	20	53	40	26	76	57	38	
21	Strength	48	36	24	85	64	42	117	88	58	188	141	94	49	37	24	88	66	44	121	91	60	196	147	98	
	L/360	28	21	14	33	25	16	43	32	21	60	45	30	30	22	15	36	27	18	46	34	23	66	49	33	
22	Strength	44	33	22	78	58	39	107	80	53	172	129	86	45	34	22	80	60	40	110	82	55	179	134	89	
	L/360	24	18	12	29	22	14	37	28	18	52	39	26	26	19	13	31	23	15	40	30	20	57	43	28	
23	Strength	40	30	20	71	53	35	97	73	48	157	118	78	41	31	20	73	55	36	101	75	50	163	122	81	
	L/360	21	16	10	25	19	12	32	24	16	45	34	22	22	17	11	27	20	13	35	26	17	50	37	25	
24	Strength	37	27		65	49	32	89	67	44	144	108	72	38	28	19	67	50	33	92	69	46	150	112	75	
	L/360	18	14		22	16	11	28	21	14	40	30	20	20	15	10	24	18	12	31	23	15	44	33	22	
25	Strength	34	25		60	45	30	82	62	41	133	99	66	35	26		62	46	31	85	64	42	138	104	69	
	L/360	16	12		20	15	10	25	19	12	35	26	17	17	13		21	16	10	27	20	13	39	29	19	
26	Strength	31	23		55	41		76	57	38	123	92	61	32	24		57	43		79	59	39	128	96	64	
	L/360	14	11		17	13		22	17	11	31	23	15	15	11		19	14		24	18	12	35	26	17	
27	Strength	29			51	38		71	53	35	114	85	57	30	22		53	39		73	55	36	118	89	59	
	L/360	13			15	11		20	15	10	28	21	14	14	10		16	12		21	16	10	31	23	15	
28	Strength	27			48	36		66	49		106	79	53	28			49	37		68	51		110	82	55	
	L/360	11			14	10		18	13		25	19	12	12			15	11		19	14		28	21	14	
29	Strength	25			44			61	46		99	74	49	26			46	34		63	47		103	77	51	
	L/360	10			12			16	12		22	17	11	11			13	10		17	13		25	18	12	
30	Strength				42			57	43		92	69	46	24			43			59	44		96	72	48	
	L/360				11			14	11		20	15	10	10			12			15	11		22	17	11	
29	Strength																									
	L/360																									
30	Strength																									
	L/360																									

**NOTES:**

\* Web stiffeners required at ends of members.

1) Values greater than 500 psf and less than 10 psf are not shown.

2) For other deflection limits such as L/480, multiply the L/360 uniform specified loads by the following factor:

Deflection limit	Factor
L/480	360/480 = 0.75

**FLOOR JOIST LOAD TABLE**  
**Uniformly Distributed Single Span Loads (psf) with  $K_{\phi} = 0$**

Strength - Factored Loads		L/360 - Specified Loads																	
Section		1000S162-54			1000S162-68			1000S162-97			1000S200-54			1000S200-68			1000S200-97		
Span (ft)	Design Criteria	Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)		
		12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24
10	Strength	388*	291*	194*		404*	269*			440*	424*	318*	212*		467*	311*			
	L/360	406	304	203		389	259			370	464	348	232		444	296			
11	Strength	320*	240*	160*	445*	334*	222*			363*	373*	279*	186*		386*	257*			415*
	L/360	305	228	152	390	292	195			278	349	261	174		334	222			316
12	Strength	269*	202*	134*	374*	280*	187*		458*	305*	313*	235*	156*	432*	324*	216*			349*
	L/360	234	176	117	300	225	150		321	214	268	201	134	343	257	171			244
13	Strength	229*	172*	114*	319*	239*	159*		390*	260*	267*	200*	133*	368*	276*	184*		446*	297*
	L/360	184	138	92	236	177	118		252	168	211	158	105	269	202	134		287	191
14	Strength	197*	148*	98*	275*	206*	137*	448	336	224	230*	172*	115*	318*	238*	159*		385*	256*
	L/360	147	110	73	189	142	94	269	202	134	169	126	84	216	162	108		230	153
15	Strength	172*	129*	86*	239*	179*	119*	391	293	195	200*	150*	100*	277*	207*	138*	447*	335*	223*
	L/360	120	90	60	154	115	77	219	164	109	137	103	68	175	131	87	249	187	124
16	Strength	151*	113*	75*	210*	158*	105*	343	257	171	176*	132*	88*	243*	182*	121*	393	294	196
	L/360	99	74	49	126	95	63	180	135	90	113	85	56	144	108	72	205	154	102
17	Strength	134*	100*	67*	186	139	93	304	228	152	156*	117*	78*	215*	161*	107*	348	261	174
	L/360	82	61	41	105	79	52	150	112	75	94	70	47	120	90	60	171	128	85
18	Strength	119	89	59	166	124	83	271	203	135	139*	104*	69*	192*	144*	96*	310	233	155
	L/360	69	52	34	89	66	44	126	95	63	79	59	39	101	76	50	144	108	72
19	Strength	107	80	53	149	112	74	243	182	121	125*	93*	62*	172	129	86	278	209	139
	L/360	59	44	29	75	56	37	107	80	53	67	50	33	86	64	43	122	92	61
20	Strength	97	72	48	134	101	67	220	165	110	112*	84*	56*	155	116	77	251	188	125
	L/360	50	38	25	64	48	32	92	69	46	58	43	29	74	55	37	105	79	52
21	Strength	87	65	43	122	91	61	199	149	99	102	76	51	141	106	70	228	171	114
	L/360	43	32	21	56	42	28	79	59	39	50	37	25	64	48	32	91	68	45
22	Strength	80	60	40	111	83	55	181	136	90	93	69	46	128	96	64	207	155	103
	L/360	38	28	19	48	36	24	69	52	34	43	32	21	55	41	27	79	59	39
23	Strength	73	55	36	101	76	50	166	124	83	85	63	42	117	88	58	190	142	95
	L/360	33	25	16	42	32	21	60	45	30	38	28	19	48	36	24	69	51	34
24	Strength	67	50	33	93	70	46	152	114	76	78	58	39	108	81	54	174	131	87
	L/360	29	22	14	37	28	18	53	40	26	33	25	16	42	32	21	61	45	30
25	Strength	62	46	31	86	64	43	140	105	70	72	54	36	99	74	49	161	120	80
	L/360	25	19	12	33	24	16	47	35	23	29	22	14	37	28	18	53	40	26
26	Strength	57	43	28	79	59	39	130	97	65	66	50	33	92	69	46	148	111	74
	L/360	23	17	11	29	22	14	42	31	21	26	19	13	33	25	16	47	35	23
27	Strength	53	39	26	73	55	36	120	90	60	61	46	30	85	64	42	138	103	69
	L/360	20	15	10	26	19	13	37	28	18	23	17	11	30	22	15	42	32	21
28	Strength	49	37		68	51	34	112	84	56	57	43	28	79	59	39	128	96	64
	L/360	18	13		23	17	11	33	25	16	21	15	10	27	20	13	38	28	19
29	Strength	46	34		64	48	32	104	78	52	53	40		74	55	37	119	89	59
	L/360	16	12		21	15	10	30	22	15	19	14		24	18	12	34	25	17
30	Strength	43	32		59	44		97	73	48	50	37		69	51	34	111	83	55
	L/360	15	11		19	14		27	20	13	17	12		21	16	10	31	23	15
31	Strength	40	30		56	42		91	68	45	46	35		64	48		104	78	52
	L/360	13	10		17	13		24	18	12	15	11		19	14		28	21	14
32	Strength	37			52	39		85	64	42	44	33		60	45		98	73	49
	L/360	12			15	11		22	16	11	14	10		18	13		25	19	12

**NOTES:**

\* Web stiffeners required at ends of members.

1) Values greater than 500 psf and less than 10 psf are not shown.

2) For other deflection limits such as L/480, multiply the L/360 uniform specified loads by the following factor:

Deflection limit	Factor
L/480	360/480 = 0.75



**FLOOR JOIST LOAD TABLE**

Uniformly Distributed Single Span Loads (psf) with  $K_{\phi} = 0$

Strength - Factored Loads		L/360 - Specified Loads																			
Span (ft)	Section Design Criteria	1000S250-54			1000S250-68			1000S250-97			1000S300-54			1000S300-68			1000S300-97				
		Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)				
		12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24		
10	Strength		318*	212*			329*														
	L/360		399	266			339														
11	Strength	385*	289*	192*			408*	272*			443*	385*	289*	192*			421*	280*			460*
	L/360	399	299	199			382	254			357	420	315	210			408	272			391
12	Strength	331*	248*	165*	457*	343*	228*			372*	340*	255*	170*	472*	354*	236*				386*	
	L/360	307	230	153	392	294	196			275	323	242	161	420	315	210				301	
13	Strength	282*	211*	141*	389*	292*	194*			476*	317*	290*	217*	145*	402*	301*	201*			494*	329*
	L/360	242	181	121	308	231	154			325	216	254	190	127	330	247	165			355	237
14	Strength	243*	182*	121*	336*	252*	168*			410*	273*	250*	187*	125*	346*	260*	173*			426*	284*
	L/360	193	145	96	247	185	123			260	173	203	152	101	264	198	132			284	189
15	Strength	211*	158*	105*	292*	219*	146*	477*	357*	238*	218*	163*	109*	302*	226*	151*	494*	371*	247*		
	L/360	157	118	78	200	150	100	282	211	141	165	124	82	215	161	107	308	231	154		
16	Strength	186*	139*	93*	257*	192*	128*	419*	314*	209*	191*	143*	95*	265*	199*	132*	434*	326*	217*		
	L/360	129	97	64	165	124	82	232	174	116	136	102	68	177	132	88	254	190	127		
17	Strength	164*	123*	82*	227*	170*	113*	371	278	185	169*	127*	84*	235*	176*	117*	385*	288*	192*		
	L/360	108	81	54	138	103	69	193	145	96	113	85	56	147	110	73	212	159	106		
18	Strength	147*	110*	73*	203*	152*	101*	331	248	165	151*	113*	75*	209*	157*	104*	343	257	171		
	L/360	91	68	45	116	87	58	163	122	81	95	71	47	124	93	62	178	134	89		
19	Strength	132*	99*	66*	182*	136*	91*	297	222	148	135*	101*	67*	188*	141*	94*	308	231	154		
	L/360	77	58	38	98	74	49	138	104	69	81	61	40	105	79	52	151	113	75		
20	Strength	119*	89*	59*	164	123	82	268	201	134	122*	91*	61*	170*	127*	85*	278	208	139		
	L/360	66	49	33	84	63	42	119	89	59	69	52	34	90	68	45	130	97	65		
21	Strength	108*	81*	54*	149	112	74	243	182	121	111*	83*	55*	154	115	77	252	189	126		
	L/360	57	43	28	73	54	36	102	77	51	60	45	30	78	58	39	112	84	56		
22	Strength	98	73	49	136	102	68	221	166	110	101*	76*	50	140	105	70	230	172	115		
	L/360	49	37	24	63	47	31	89	67	44	52	39	26	68	51	34	97	73	48		
23	Strength	90	67	45	124	93	62	202	152	101	92	69	46	128	96	64	210	157	105		
	L/360	43	32	21	55	41	27	78	58	39	45	34	22	59	44	29	85	64	42		
24	Strength	82	62	41	114	85	57	186	139	93	85	63	42	118	88	59	193	144	96		
	L/360	38	28	19	49	36	24	68	51	34	40	30	20	52	39	26	75	56	37		
25	Strength	76	57	38	105	79	52	171	128	85	78	58	39	108	81	54	178	133	89		
	L/360	34	25	17	43	32	21	60	45	30	35	26	17	46	34	23	66	50	33		
26	Strength	70	52	35	97	73	48	158	119	79	72	54	36	100	75	50	164	123	82		
	L/360	30	22	15	38	28	19	54	40	27	31	23	15	41	30	20	59	44	29		
27	Strength	65	49	32	90	67	45	147	110	73	67	50	33	93	69	46	152	114	76		
	L/360	27	20	13	34	25	17	48	36	24	28	21	14	36	27	18	52	39	26		
28	Strength	60	45	30	84	63	42	136	102	68	62	46	31	86	65	43	142	106	71		
	L/360	24	18	12	30	23	15	43	32	21	25	19	12	33	24	16	47	35	23		
29	Strength	56	42	28	78	58	39	127	95	63	58	43	29	80	60	40	132	99	66		
	L/360	21	16	10	27	20	13	39	29	19	22	17	11	29	22	14	42	32	21		
30	Strength	52	39		73	54	36	119	89	59	54	40	27	75	56	37	123	92	61		
	L/360	19	14		25	18	12	35	26	17	20	15	10	26	20	13	38	28	19		
31	Strength	49	37		68	51	34	111	83	55	51	38		70	53	35	115	86	57		
	L/360	17	13		22	17	11	31	23	15	18	14		24	18	12	34	26	17		
32	Strength	46	34		64	48	32	104	78	52	47	35		66	49	33	108	81	54		
	L/360	16	12		20	15	10	29	21	14	17	12		22	16	11	31	23	15		

**NOTES:**

\* Web stiffeners required at ends of members.

1) Values greater than 500 psf and less than 10 psf are not shown.

2) For other deflection limits such as L/480, multiply the L/360 uniform specified loads by the following factor:

Deflection limit	Factor
L/480	360/480 = 0.75





**FLOOR JOIST LOAD TABLE**  
Uniformly Distributed Single Span Loads (psf) with  $K_{\phi} = 0$

Strength - Factored Loads		L/360 - Specified Loads																									
Span (ft)	Section Design Criteria	1400S162-68			1400S162-97			1400S200-68			1400S200-97			1400S250-68			1400S250-97			1400S300-68			1400S300-97				
		Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)			Spacing (in.)				
		12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24	12	16	24		
14	Strength L/360	363* 415	272* 311	181* 207	466* 460	311* 306	431* 469	323* 351	215* 234			362* 344			323* 387	215* 258			389* 383			323* 409	215* 272			408* 414	
15	Strength L/360	317* 337	237* 253	158* 168	406* 374	271* 249	376* 381	282* 286	188* 190			473* 420	315* 280	402* 419	302* 314	201* 209			339* 312	402* 443	302* 332	201* 221			355* 337		
16	Strength L/360	278* 278	208* 208	139* 139	476* 411	357* 308	238* 205	330* 314	248* 235	165* 157			416* 346	277* 230	356* 345	267* 259	178* 172			447* 385	298* 257	372* 365	279* 274	186* 182		468* 416	312* 277
17	Strength L/360	246* 231	185* 173	123* 115	422* 342	316* 257	211* 171	292* 261	219* 196	146* 130	491* 385	368* 288	245* 192	316* 288	237* 216	158* 144			396* 321	264* 214	329* 304	247* 248	164* 152		415* 347	276* 231	
18	Strength L/360	220* 195	165* 146	110* 97	376* 288	282* 216	188* 144	261* 220	195* 165	130* 110	438* 324	328* 243	219* 162	281* 242	211* 182	140* 121	471* 361	353* 270	235* 180	294* 256	220* 192	147* 128	493* 390	370* 292	246* 195		
19	Strength L/360	197* 166	148* 124	98* 83	337* 245	253* 184	168* 122	234* 187	175* 140	117* 93	393* 275	295* 206	196* 137	253* 206	189* 154	126* 103	422* 307	317* 230	211* 153	264* 218	198* 163	132* 109	443* 332	332* 249	221* 166		
20	Strength L/360	178* 142	133* 106	71* 61	305* 210	228* 157	152* 105	211* 160	158* 120	105* 80	355* 236	266* 177	177* 118	228* 171	151* 114	114* 88	381* 263	286* 197	190* 131	238* 187	178* 140	119* 93	400* 284	300* 213	200* 142		
21	Strength L/360	161* 123	121* 92	80* 61	276* 181	207* 136	138* 90	191* 138	143* 104	95* 69	321* 204	241* 153	160* 102	207* 152	155* 114	103* 76	346* 227	259* 170	173* 113	216* 161	162* 121	108* 80	362* 245	272* 184	181* 122		
22	Strength L/360	147* 107	110* 80	73* 53	252* 158	189* 118	126* 79	174* 120	131* 90	87* 60	293* 177	220* 133	146* 88	188* 133	141* 99	94* 66	315* 197	236* 148	157* 98	196* 140	147* 105	98* 70	330* 213	247* 160	165* 106		
23	Strength L/360	134* 93	101* 70	67* 46	230* 138	172* 103	115* 69	160* 105	120* 79	80* 52	268* 155	201* 116	134* 77	172* 116	99* 87	86* 58	288* 173	216* 129	144* 86	180* 132	95* 61	182* 123	90* 61	302* 187	226* 140	151* 93	
24	Strength L/360	123* 82	92* 61	61* 41	211* 121	158* 91	105* 60	146* 93	110* 69	73* 46	246* 136	184* 102	123* 68	158* 102	118* 76	79* 51	265* 152	198* 114	132* 76	165* 108	124* 81	82* 54	277* 164	208* 123	138* 82		
25	Strength L/360	114* 72	85* 54	57* 36	195* 107	146* 80	97* 53	135* 82	101* 61	67* 41	227* 121	170* 90	113* 60	146* 90	109* 67	73* 45	244* 134	183* 101	122* 67	152* 95	114* 71	76* 47	256* 145	192* 109	128* 72		
26	Strength L/360	105* 64	79* 48	52* 32	180* 95	135* 71	90* 47	125* 73	93* 54	62* 36	210* 107	157* 80	105* 53	135* 80	101* 60	67* 40	225* 119	169* 89	112* 59	141* 85	105* 63	70* 42	236* 129	177* 97	118* 64		
27	Strength L/360	97* 57	73* 43	48* 28	167* 85	125* 64	83* 42	116* 65	87* 49	58* 32	194* 96	146* 72	97* 48	125* 71	93* 53	62* 35	209* 107	157* 80	104* 53	130* 76	98* 57	65* 38	219* 115	164* 86	109* 57		
28	Strength L/360	90* 51	68* 38	45* 25	155* 76	116* 57	77* 38	107* 58	80* 43	53* 29	181* 86	135* 64	90* 43	116* 64	87* 48	58* 32	194* 95	146* 71	97* 47	121* 68	91* 51	60* 34	204* 103	153* 77	102* 51		
29	Strength L/360	84* 46	63* 35	42* 23	145* 69	108* 51	72* 34	100* 52	75* 39	50* 26	168* 77	126* 58	84* 38	108* 58	81* 43	54* 29	181* 86	136* 64	90* 43	113* 61	85* 46	56* 30	190* 93	142* 70	95* 46		
30	Strength L/360	79* 42	59* 31	39* 21	135* 62	101* 46	67* 31	94* 47	70* 35	47* 23	157* 70	118* 52	78* 35	101* 52	76* 39	50* 26	169* 78	127* 58	84* 39	105* 55	79* 41	52* 27	177* 84	133* 63	88* 42		
31	Strength L/360	74* 38	55* 28	37* 19	126* 56	95* 42	63* 28	88* 43	66* 32	44* 21	147* 63	110* 47	73* 31	95* 47	71* 35	47* 23	158* 70	119* 53	79* 35	99* 50	74* 37	49* 25	166* 76	124* 57	83* 38		
32	Strength L/360	69* 34	52* 26	34* 17	119* 51	89* 38	59* 25	82* 39	62* 29	41* 19	138* 57	104* 43	69* 28	89* 43	66* 32	44* 21	149* 64	111* 48	74* 32	93* 45	69* 34	46* 22	156* 69	117* 52	78* 34		
33	Strength L/360	65* 31	49* 23	32* 15	112* 46	84* 35	56* 23	77* 35	58* 26	38* 17	130* 52	97* 39	65* 26	83* 39	62* 29	41* 19	140* 58	105* 43	70* 29	87* 41	65* 31	43* 20	146* 63	110* 47	73* 31		
34	Strength L/360	61* 28	46* 21	30* 14	105* 42	79* 32	52* 21	73* 32	54* 24	36* 16	122* 48	92* 36	61* 24	79* 36	59* 24	39* 18	132* 53	99* 40	66* 26	82* 38	61* 28	41* 19	138* 57	103* 43	69* 28		
35	Strength L/360	58* 26	43* 19	29* 13	99* 39	74* 29	49* 19	69* 30	51* 22	34* 15	115* 44	86* 33	57* 22	74* 33	55* 24	37* 16	124* 49	93* 36	62* 24	77* 34	58* 26	38* 17	130* 53	97* 39	65* 26		
36	Strength L/360	55* 24	41* 18	27* 12	94* 36	70* 27	47* 18	65* 27	48* 20	32* 13	109* 40	82* 30	54* 20	70* 30	52* 22	35* 15	117* 45	88* 33	58* 22	73* 32	55* 24	36* 16	123* 48	92* 36	61* 24		
37	Strength L/360	52* 22	39* 16	26* 11	89* 33	66* 24	44* 16	61* 25	46* 30	30* 12	103* 37	77* 28	51* 18	66* 27	50* 13	33* 11	111* 41	83* 31	55* 20	69* 29	52* 22	34* 14	116* 44	87* 33	58* 22		
38	Strength L/360	49* 20	37* 15	24* 10	84* 30	63* 23	42* 15	58* 23	43* 17	29* 11	98* 34	73* 25	49* 17	63* 25	47* 19	31* 12	105* 38	79* 28	52* 19	66* 27	49* 20	33* 13	110* 41	83* 31	55* 20		
39	Strength L/360	46* 19	35* 14		80* 28	60* 21	40* 14	55* 21	41* 16	27* 10	93* 31	70* 23	46* 15	60* 23	45* 17	30* 11	100* 35	75* 26	50* 17	62* 25	47* 18	31* 12	105* 38	78* 28	52* 19		
40	Strength L/360	44* 17	33* 13		76* 26	57* 19	38* 13	52* 20	39* 15	26* 10	88* 29	66* 22	44* 14	57* 22	42* 11	28* 11	95* 32	71* 24	47* 16	59* 44	29* 29	100* 75	75* 50				

**NOTES:**

\* Web stiffeners required at ends of members.

1) Values greater than 500 psf and less than 10 psf are not shown.

2) For other deflection limits such as L/480, multiply the L/360 uniform specified loads by the following factor:

Deflection limit	Factor
L/480	360/480 = 0.75