

COMMERCIAL FLOOR LOADS

COMMERCIAL FLOOR LOADS: MULTIPLE-SPAN JOIST: ALLOWABLE LOADS FOR PRI OR SSI JOISTS (PLF)

Joist Span (ft)	PRI 20								SSI 36X				PRI 40															
	9 1/2"				11 7/8"				14"				9 1/2"				11 7/8"				14"				16"			
	Live L/600	Live L/480	Live L/360	Total	Live L/600	Live L/480	Live L/360	Total	Live L/600	Live L/480	Live L/360	Total	Live L/600	Live L/480	Live L/360	Total	Live L/600	Live L/480	Live L/360	Total	Live L/600	Live L/480	Live L/360	Total	Live L/600	Live L/480	Live L/360	Total
6	-	-	-	227	-	-	-	227	-	-	-	227	-	-	-	288	-	-	-	333	-	-	-	333	-	-	-	333
7	-	-	-	194	-	-	-	194	-	-	-	194	-	-	-	247	-	-	-	286	-	-	-	286	-	-	-	286
8	-	-	-	170	-	-	-	170	-	-	-	170	-	-	-	216	-	-	-	250	-	-	-	250	-	-	-	250
9	-	-	-	151	-	-	-	151	-	-	-	151	-	-	-	192	-	-	-	222	-	-	-	222	-	-	-	222
10	-	-	-	136	-	-	-	136	-	-	-	136	-	-	-	173	-	-	-	200	-	-	-	200	-	-	-	200
11	114	-	-	124	-	-	-	124	-	-	-	124	144	-	-	157	-	-	-	182	-	-	-	182	-	-	-	182
12	90	113	-	113	-	-	-	113	-	-	-	113	115	144	-	144	-	-	-	167	-	-	-	167	-	-	-	167
13	73	91	-	105	-	-	-	105	-	-	-	105	93	116	-	129	150	-	-	154	-	-	-	154	-	-	-	154
14	59	74	-	97	-	-	-	97	-	-	-	97	76	95	-	112	124	-	-	143	-	-	-	143	-	-	-	143
15	49	61	81	90	82	-	-	91	-	-	-	91	63	79	-	97	103	-	-	126	-	-	-	133	-	-	-	133
16	41	51	68	79	69	-	-	85	-	-	-	85	53	66	-	85	87	108	-	111	122	-	-	125	-	-	-	125
17					58	73	-	80	-	-	-	80					73	92	-	98	104	-	-	118	-	-	-	118
18					49	62	-	76	71	-	-	76					63	78	-	88	89	-	-	105	-	-	-	111
19					42	53	71	72	61	-	-	72					54	67	-	79	77	-	-	95	102	-	-	105
20					37	46	61	65	53	66	-	68					47	58	-	71	67	83	-	85	89	-	-	99
21									46	58	-	65									58	73	-	77	78	-	-	90
22									41	51	-	62									51	64	-	71	68	-	-	82
23									36	45	-	59									45	56	-	65	61	-	-	75
24									32	40	53	54									40	50	-	59	54	67	-	69
25																									48	60	-	63
26																									43	54	-	59
27																									39	48	-	54
28																									35	43	-	51
29																												
30																												
31																												
32																												

See notes on page 58

Formatting in the Total column indicates where web stiffeners are required:

123 = All Supports **123** = Intermediate Supports Only **123** = End Supports Only 123 = Not Required

COMMERCIAL FLOOR LOADS

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Joist Span (ft)	PRI 60																PRI 80											
	9½"				11¾"				14"				16"				11¾"				14"				16"			
	Live L/600	Live L/480	Live L/360	Total	Live L/600	Live L/480	Live L/360	Total	Live L/600	Live L/480	Live L/360	Total	Live L/600	Live L/480	Live L/360	Total	Live L/600	Live L/480	Live L/360	Total	Live L/600	Live L/480	Live L/360	Total	Live L/600	Live L/480	Live L/360	Total
6	-	-	-	288	-	-	-	333	-	-	-	333	-	-	-	333	-	-	-	368	-	-	-	403	-	-	-	403
7	-	-	-	247	-	-	-	286	-	-	-	286	-	-	-	286	-	-	-	315	-	-	-	345	-	-	-	345
8	-	-	-	216	-	-	-	250	-	-	-	250	-	-	-	250	-	-	-	276	-	-	-	302	-	-	-	302
9	-	-	-	192	-	-	-	222	-	-	-	222	-	-	-	222	-	-	-	245	-	-	-	268	-	-	-	268
10	-	-	-	173	-	-	-	200	-	-	-	200	-	-	-	200	-	-	-	221	-	-	-	242	-	-	-	242
11	-	-	-	157	-	-	-	182	-	-	-	182	-	-	-	182	-	-	-	201	-	-	-	220	-	-	-	220
12	133	-	-	144	-	-	-	167	-	-	-	167	-	-	-	167	-	-	-	184	-	-	-	201	-	-	-	201
13	108	-	-	133	-	-	-	154	-	-	-	154	-	-	-	154	-	-	-	170	-	-	-	186	-	-	-	186
14	89	111	-	123	-	-	-	143	-	-	-	143	-	-	-	143	-	-	-	158	-	-	-	173	-	-	-	173
15	74	92	-	115	120	-	-	133	-	-	-	133	-	-	-	133	-	-	-	147	-	-	-	161	-	-	-	161
16	62	77	103	108	101	-	-	125	-	-	-	125	-	-	-	125	131	-	-	138	-	-	-	151	-	-	-	151
17					86	107	-	118	-	-	-	118	-	-	-	118	112	-	-	130	-	-	-	142	-	-	-	142
18					73	92	-	111	105	-	-	111	-	-	-	111	96	120	-	123	-	-	-	134	-	-	-	134
19					63	79	-	105	91	-	-	105	-	-	-	105	83	104	-	116	118	-	-	127	-	-	-	127
20					55	69	92	98	79	99	-	100	-	-	-	100	73	91	-	110	103	-	-	121	-	-	-	121
21									69	86	-	95	92	-	-	95				90	113	-	115	-	-	-	115	
22									61	76	-	91	81	-	-	91				80	100	-	110	105	-	-	110	
23									54	67	-	87	72	-	-	87				71	88	-	105	94	-	-	105	
24									48	60	79	82	64	80	-	83				63	79	-	101	84	-	-	101	
25													57	71	-	80								75	94	-	97	
26													51	64	-	77								67	84	-	93	
27													46	58	-	74								61	76	-	89	
28													42	52	69	70								55	69	-	86	
29																												
30																												
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