

COMMERCIAL FLOOR LOADS

MULTIPLE-SPAN JOIST: COMMERCIAL—ALLOWABLE UNIFORM FLOOR LOAD (PLF)

Joist Span (ft)	PWI 20												PWI 30							
	9½"				11½"				14"				9½"				11½"			
	Live			TOTAL	Live			TOTAL	Live			TOTAL	Live			TOTAL	Live			TOTAL
	L/600	L/480	L/360		L/600	L/480	L/360		L/600	L/480	L/360		L/600	L/480	L/360		L/600	L/480	L/360	
6	-	-	-	299	-	-	-	303	-	-	-	303	-	-	-	254	-	-	-	254
7	-	-	-	256	-	-	-	260	-	-	-	260	-	-	-	218	-	-	-	218
8	-	-	-	224	-	-	-	228	-	-	-	228	-	-	-	191	-	-	-	191
9	193	-	-	199	-	-	-	202	-	-	-	202	-	-	-	169	-	-	-	169
10	147	-	-	179	-	-	-	182	-	-	-	182	-	-	-	152	-	-	-	152
11	114	143	-	163	-	-	-	165	-	-	-	165	125	-	-	139	-	-	-	139
12	90	113	-	140	149	-	-	152	-	-	-	152	99	124	-	127	-	-	-	127
13	73	91	-	119	121	-	-	140	-	-	-	140	80	99	-	117	-	-	-	117
14	59	74	99	103	99	124	-	130	-	-	-	130	65	81	108	109	108	-	-	109
15	49	61	81	90	82	103	-	116	117	-	-	121	54	67	89	102	90	-	-	102
16	41	51	68	79	69	86	-	102	98	-	-	114	45	56	75	95	75	94	-	95
17					58	73	-	90	83	104	-	107					64	79	-	90
18					49	62	-	81	71	89	-	96					54	68	-	85
19					42	53	71	72	61	77	-	86					47	58	78	80
20					37	46	61	65	53	66	-	78					40	50	67	76
21									46	58	-	71								
22									41	51	-	64								
23									36	45	-	59								
24									32	40	53	54								
25																				
26																				
27																				
28																				
29																				
30																				

See notes on page 30

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

HOW TO USE COMMERCIAL FLOOR LOAD TABLES

1. Choose a joist spacing and convert the live and total design loads specified in pounds per square foot (psf) to joist loads in pounds per lineal foot (plf).
Joist Spacing [ft] x Design Load [psf] = Joist Load [plf]

JOIST LOAD (PLF)

Joist Spacing		Design Load (psf)									
Inches	Feet	20	30	40	50	60	70	80	90	100	
12	1	20	30	40	50	60	70	80	90	100	
16	1.33	27	40	53	67	80	93	106	120	133	
19.2	1.6	32	48	64	80	96	112	128	144	160	
24	2	40	60	80	100	120	140	160	180	200	

2. Choose deflection limits. The values in the Total columns are based on L/240. Building codes typically require L/360 for live load. Experience has shown that live load deflection limits of L/480 at 40 psf for residential floors and L/600 at 50 psf for commercial floors do a better job than L/360 of meeting most performance expectations.
3. Choose a span and scan across the Span row to find a joist size with sufficient Live and Total load capacities. Both requirements must be satisfied. When no value is shown in a Live column, Total load governs.
4. 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
5. See *Web Stiffener Requirements* on page 93 for more details.

PSF TO PLF CONVERSION – LOAD IN POUNDS PER LINEAL FOOT (PLF)

O.C. Spacing		Load in Pounds per Square Foot (psf)											
Inches	Feet	20	25	30	35	40	45	50	55	60	65	70	75
12	1.00	20	25	30	35	40	45	50	55	60	65	70	75
16	1.33	27	33	40	47	53	60	67	73	80	87	93	100
19.2	1.60	32	40	48	56	64	72	80	88	96	104	112	120
24	2.00	40	50	60	70	80	90	100	110	120	130	140	150

o.c. spacing (ft) x load (psf) = load (plf)

COMMERCIAL FLOOR LOADS

MULTIPLE-SPAN JOIST: COMMERCIAL—ALLOWABLE UNIFORM FLOOR LOAD (PLF)

Joist Span (ft)	PWI 40																PWI 45																
	9½"				11⅝"				14"				16"				9½"				11⅝"				14"				16"				
	Live				Live				Live				Live				Live				Live				Live				Live				
	L/600	L/480	L/360	TOTAL	L/600	L/480	L/360	TOTAL	L/600	L/480	L/360	TOTAL	L/600	L/480	L/360	TOTAL	L/600	L/480	L/360	TOTAL	L/600	L/480	L/360	TOTAL	L/600	L/480	L/360	TOTAL	L/600	L/480	L/360	TOTAL	
6	-	-	-	299	-	-	-	379	-	-	-	379	-	-	-	420	-	-	-	299	-	-	-	347	-	-	-	347	-	-	-	347	
7	-	-	-	256	-	-	-	325	-	-	-	325	-	-	-	360	-	-	-	256	-	-	-	297	-	-	-	297	-	-	-	297	
8	-	-	-	224	-	-	-	284	-	-	-	284	-	-	-	315	-	-	-	224	-	-	-	260	-	-	-	260	-	-	-	260	
9	-	-	-	199	-	-	-	252	-	-	-	252	-	-	-	280	-	-	-	199	-	-	-	231	-	-	-	231	-	-	-	231	
10	-	-	-	179	-	-	-	227	-	-	-	227	-	-	-	252	-	-	-	179	-	-	-	208	-	-	-	208	-	-	-	208	
11	144	-	-	163	-	-	-	207	-	-	-	207	-	-	-	229	144	-	-	163	-	-	-	189	-	-	-	189	-	-	-	189	
12	115	144	-	149	184	-	-	189	-	-	-	189	-	-	-	210	115	144	-	149	-	-	-	173	-	-	-	173	-	-	-	173	
13	93	116	-	129	150	-	-	168	-	-	-	175	-	-	-	194	93	116	-	138	150	-	-	160	-	-	-	160	-	-	-	160	
14	76	95	-	112	124	-	-	145	-	-	-	162	-	-	-	180	76	95	127	128	124	-	-	149	-	-	-	149	-	-	-	149	
15	63	79	-	97	103	-	-	126	145	-	-	151	-	-	-	168	63	79	105	119	103	129	-	139	-	-	-	139	-	-	-	139	
16	53	66	-	85	87	108	-	111	122	-	-	133	-	-	-	155	53	66	88	105	87	108	-	130	123	-	-	130	-	-	-	130	
17					73	92	-	98	104	-	-	118	-	-	-	137					73	92	-	119	105	-	-	122	-	-	-	122	
18					63	78	-	88	89	-	-	105	118	-	-	122					63	78	104	107	90	112	-	116	-	-	-	116	
19					54	67	-	79	77	-	-	95	102	-	-	110					54	67	90	96	77	97	-	109	103	-	-	109	
20					47	58	-	71	67	83	-	85	89	-	-	99					47	58	78	86	67	84	-	103	90	-	-	104	
21									58	73	-	77	78	-	-	90																99	
22									51	64	-	71	68	-	-	82																95	
23									45	56	-	65	61	-	-	75																89	
24									40	50	-	59	54	67	-	69																82	
25													48	60	-	63																75	
26													43	54	-	59																70	
27													39	48	-	54																65	
28													35	43	-	51																60	
29																																	
30																																	
31																																	
32																																	
33																																	
34																																	
35																																	
36																																	

Notes:

1. Table values apply to uniformly loaded floor joists.
2. Span is measured to the center of each support.
3. Table values do not account for stiffness added by glued or nailed sheathing.
4. Provide at least 1¾" of bearing length at end supports and 3½" at intermediate supports.
5. Provide lateral restraint at supports (e.g. blocking panels, rim board) and along the compression flange of each joist (e.g. floor sheathing, gypsum board ceiling).
6. Use sizing software or consult a professional engineer to analyze conditions outside the scope of this table (e.g. different bearing lengths, concentrated loads) or for multiple span joists if the length of any span is less than half the length of an adjacent span.

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

MULTIPLE-SPAN JOIST: COMMERCIAL—ALLOWABLE UNIFORM FLOOR LOAD (PLF)

Joist Span (ft)	PWI 47																											
	7½"				9½"				11½"				14"				16"				18"				20"			
	Live			TOTAL	Live			TOTAL	Live			TOTAL	Live			TOTAL	Live			TOTAL	Live			TOTAL	Live			TOTAL
L/600	L/480	L/360	L/600		L/480	L/360	L/600		L/480	L/360	L/600		L/480	L/360	L/600		L/480	L/360	L/600		L/480	L/360	L/600		L/480	L/360	L/600	
6	-	-	-	283	-	-	-	307	-	-	-	341	-	-	-	371	-	-	-	399	-	-	-	428	-	-	-	457
7	-	-	-	243	-	-	-	263	-	-	-	292	-	-	-	318	-	-	-	342	-	-	-	367	-	-	-	391
8	-	-	-	213	-	-	-	230	-	-	-	256	-	-	-	278	-	-	-	300	-	-	-	321	-	-	-	343
9	173	-	-	189	-	-	-	204	-	-	-	227	-	-	-	247	-	-	-	266	-	-	-	285	-	-	-	304
10	132	165	-	170	-	-	-	184	-	-	-	204	-	-	-	222	-	-	-	240	-	-	-	257	-	-	-	274
11	103	129	-	155	152	-	-	167	-	-	-	186	-	-	-	202	-	-	-	218	-	-	-	233	-	-	-	249
12	82	102	136	142	121	151	-	153	-	-	-	170	-	-	-	185	-	-	-	200	-	-	-	214	-	-	-	228
13	66	82	110	127	98	123	-	142	155	-	-	157	-	-	-	171	-	-	-	184	-	-	-	198	-	-	-	211
14					80	100	-	131	128	-	-	146	-	-	-	159	-	-	-	171	-	-	-	183	-	-	-	196
15					67	83	111	119	107	133	-	136	-	-	-	148	-	-	-	160	-	-	-	171	-	-	-	183
16					56	70	93	104	90	112	-	128	126	-	-	139	-	-	-	150	-	-	-	161	-	-	-	171
17									76	95	-	118	107	-	-	131	140	-	-	141	-	-	-	151	-	-	-	161
18									65	81	-	106	92	115	-	124	121	-	-	133	-	-	-	143	-	-	-	152
19									56	70	93	95	79	99	-	112	104	-	-	126	133	-	-	135	-	-	-	144
20									49	61	81	86	69	86	-	102	91	114	-	116	116	-	-	128	-	-	-	137
21													60	75	-	92	80	99	-	105	102	-	-	118	126	-	-	130
22													53	66	-	84	70	87	-	96	89	-	-	107	111	-	-	119
23													47	58	-	77	62	77	-	88	79	-	-	98	99	-	-	109
24													41	52	69	70	55	69	-	80	70	88	-	90	88	-	-	100
25																	49	61	-	74	63	79	-	83	78	-	-	92
26																	44	55	-	69	56	71	-	77	70	-	-	85
27																	39	49	-	64	51	63	-	71	63	-	-	79
28																	36	44	-	59	46	57	-	66	57	72	-	73
29																					41	52	-	62	52	65	-	68
30																					38	47	-	58	47	59	-	64
31																					34	43	-	54	43	54	-	60
32																									39	49	-	56
33																									36	45	-	53
34																									33	41	-	50
35																									30	38	-	47
36																												

See notes on page 32

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

MULTIPLE-SPAN JOIST: COMMERCIAL—ALLOWABLE UNIFORM FLOOR LOAD (PLF)

Joist Span (ft)	PWI 50																PWI 60															
	9½"				11½"				14"				16"				9½"				11½"				14"				16"			
	Live				Live				Live				Live				Live				Live				Live				Live			
	L/600	L/480	L/360	TOTAL	L/600	L/480	L/360	TOTAL	L/600	L/480	L/360	TOTAL	L/600	L/480	L/360	TOTAL	L/600	L/480	L/360	TOTAL	L/600	L/480	L/360	TOTAL	L/600	L/480	L/360	TOTAL	L/600	L/480	L/360	TOTAL
6	-	-	-	272	-	-	-	272	-	-	-	272	-	-	-	272	-	-	-	299	-	-	-	379	-	-	-	379	-	-	-	420
7	-	-	-	233	-	-	-	233	-	-	-	233	-	-	-	233	-	-	-	256	-	-	-	325	-	-	-	325	-	-	-	360
8	-	-	-	204	-	-	-	204	-	-	-	204	-	-	-	204	-	-	-	224	-	-	-	284	-	-	-	284	-	-	-	315
9	-	-	-	181	-	-	-	181	-	-	-	181	-	-	-	181	-	-	-	199	-	-	-	252	-	-	-	252	-	-	-	280
10	-	-	-	163	-	-	-	163	-	-	-	163	-	-	-	163	-	-	-	179	-	-	-	227	-	-	-	227	-	-	-	252
11	140	-	-	148	-	-	-	148	-	-	-	148	-	-	-	148	-	-	-	163	-	-	-	207	-	-	-	207	-	-	-	229
12	111	-	-	136	-	-	-	136	-	-	-	136	-	-	-	136	133	-	-	149	-	-	-	189	-	-	-	189	-	-	-	210
13	90	113	-	126	-	-	-	126	-	-	-	126	-	-	-	126	108	135	-	138	173	-	-	175	-	-	-	175	-	-	-	194
14	74	92	-	117	-	-	-	117	-	-	-	117	-	-	-	117	89	111	-	128	143	-	-	162	-	-	-	162	-	-	-	180
15	61	76	102	109	101	-	-	109	-	-	-	109	-	-	-	109	74	92	-	119	120	149	-	151	-	-	-	151	-	-	-	168
16	51	64	85	102	85	-	-	102	-	-	-	102	-	-	-	102	62	77	103	112	101	126	-	142	-	-	-	142	-	-	-	158
17					72	90	-	96	-	-	-	96	-	-	-	96					86	107	-	134	122	-	-	134	-	-	-	148
18					61	77	-	91	89	-	-	91	-	-	-	91					73	92	-	121	105	-	-	126	139	-	-	140
19					53	66	-	86	77	-	-	86	-	-	-	86					63	79	106	109	91	113	-	120	120	-	-	133
20					46	57	76	82	66	-	-	82	-	-	-	82					55	69	92	98	79	99	-	114	105	-	-	126
21									58	73	-	78	-	-	-	78												107	92	115	-	120
22									51	64	-	74	69	-	-	74												97	81	101	-	113
23									45	56	-	71	61	-	-	71												89	72	90	-	103
24									40	50	67	68	54	68	-	68												82	64	80	-	95
25													48	60	-	65																87
26													43	54	-	63																81
27													39	49	-	60																75
28													35	44	-	58																70

Notes:

1. Table values apply to uniformly loaded floor joists.
2. Span is measured to the center of each support.
3. Table values do not account for stiffness added by glued or nailed sheathing.
4. Provide at least 1¾" of bearing length at end supports and 3½" at intermediate supports.
5. Provide lateral restraint at supports (e.g. blocking panels, rim board) and along the compression flange of each joist (e.g. floor sheathing, gypsum board ceiling).
6. Use sizing software or consult a professional engineer to analyze conditions outside the scope of this table (e.g. different bearing lengths, concentrated loads) or for multiple span joists if the length of any span is less than half the length of an adjacent span.

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

MULTIPLE-SPAN JOIST: COMMERCIAL—ALLOWABLE UNIFORM FLOOR LOAD (PLF)

Joist Span (ft)	PWI 70																			
	11½"				14"				16"				18"				20"			
	Live			TOTAL	Live			TOTAL	Live			TOTAL	Live			TOTAL	Live			TOTAL
	L/600	L/480	L/360		L/600	L/480	L/360		L/600	L/480	L/360		L/600	L/480	L/360		L/600	L/480	L/360	
6	-	-	-	379	-	-	-	420	-	-	-	420	-	-	-	467	-	-	-	467
7	-	-	-	325	-	-	-	360	-	-	-	360	-	-	-	400	-	-	-	400
8	-	-	-	284	-	-	-	315	-	-	-	315	-	-	-	350	-	-	-	350
9	-	-	-	252	-	-	-	280	-	-	-	280	-	-	-	311	-	-	-	311
10	-	-	-	227	-	-	-	252	-	-	-	252	-	-	-	280	-	-	-	280
11	-	-	-	207	-	-	-	229	-	-	-	229	-	-	-	255	-	-	-	255
12	-	-	-	189	-	-	-	210	-	-	-	210	-	-	-	233	-	-	-	233
13	-	-	-	175	-	-	-	194	-	-	-	194	-	-	-	215	-	-	-	215
14	155	-	-	162	-	-	-	180	-	-	-	180	-	-	-	200	-	-	-	200
15	130	-	-	151	-	-	-	168	-	-	-	168	-	-	-	187	-	-	-	187
16	110	137	-	142	154	-	-	158	-	-	-	158	-	-	-	175	-	-	-	175
17	94	117	-	134	132	-	-	148	-	-	-	148	-	-	-	165	-	-	-	165
18	80	100	-	126	113	-	-	140	-	-	-	140	-	-	-	156	-	-	-	156
19	69	87	116	120	98	123	-	133	129	-	-	133	-	-	-	147	-	-	-	147
20	60	75	101	114	86	107	-	126	113	-	-	126	-	-	-	140	-	-	-	140
21					75	94	-	120	99	-	-	120	126	-	-	133	-	-	-	133
22					66	83	110	115	88	109	-	115	112	-	-	127	-	-	-	127
23					59	73	98	110	78	97	-	110	99	-	-	122	-	-	-	122
24					52	65	87	105	69	86	-	105	88	111	-	117	110	-	-	117
25									62	77	-	101	79	99	-	112	98	-	-	112
26									55	69	92	97	71	89	-	108	89	-	-	108
27									50	62	83	93	64	80	-	104	80	100	-	104
28									45	56	75	90	58	72	97	100	72	90	-	100
29													53	66	88	97	66	82	-	97
30													48	60	80	92	60	75	-	93
31													44	55	73	86	55	68	-	90
32																	50	62	83	88
33																	46	57	76	84
34																	42	53	70	80
35																	39	49	65	75
36																				

See notes on page 34

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

MULTIPLE-SPAN JOIST: COMMERCIAL—ALLOWABLE UNIFORM FLOOR LOAD (PLF)

Joist Span (ft)	PWI 77																																	
	9½"				11⅝"				14"				16"				18"				20"				22"				24"					
	Live				Live				Live				Live				Live				Live				Live									
	L/600	L/480	L/360	TOTAL	L/600	L/480	L/360	TOTAL	L/600	L/480	L/360	TOTAL	L/600	L/480	L/360	TOTAL	L/600	L/480	L/360	TOTAL	L/600	L/480	L/360	TOTAL	L/600	L/480	L/360	TOTAL	L/600	L/480	L/360	TOTAL		
6	-	-	-	381	-	-	-	404	-	-	-	404	-	-	-	404	-	-	-	503	-	-	-	503	-	-	-	550	-	-	-	550		
7	-	-	-	327	-	-	-	346	-	-	-	346	-	-	-	346	-	-	-	431	-	-	-	431	-	-	-	471	-	-	-	471		
8	-	-	-	286	-	-	-	303	-	-	-	303	-	-	-	303	-	-	-	377	-	-	-	377	-	-	-	413	-	-	-	413		
9	-	-	-	254	-	-	-	269	-	-	-	269	-	-	-	269	-	-	-	335	-	-	-	335	-	-	-	367	-	-	-	367		
10	-	-	-	229	-	-	-	242	-	-	-	242	-	-	-	242	-	-	-	302	-	-	-	302	-	-	-	330	-	-	-	330		
11	191	-	-	208	-	-	-	220	-	-	-	220	-	-	-	220	-	-	-	274	-	-	-	274	-	-	-	300	-	-	-	300		
12	153	191	-	191	-	-	-	202	-	-	-	202	-	-	-	202	-	-	-	251	-	-	-	251	-	-	-	275	-	-	-	275		
13	124	155	-	176	-	-	-	186	-	-	-	186	-	-	-	186	-	-	-	232	-	-	-	232	-	-	-	254	-	-	-	254		
14	101	127	-	163	163	-	-	173	-	-	-	173	-	-	-	173	-	-	-	215	-	-	-	215	-	-	-	236	-	-	-	236		
15	84	105	140	153	136	-	-	162	-	-	-	162	-	-	-	162	-	-	-	201	-	-	-	201	-	-	-	220	-	-	-	220		
16	70	88	117	143	114	143	-	152	-	-	-	152	-	-	-	152	-	-	-	189	-	-	-	189	-	-	-	206	-	-	-	206		
17					97	121	-	143	138	-	-	143	-	-	-	143	-	-	-	177	-	-	-	177	-	-	-	194	-	-	-	194		
18					83	104	-	135	118	-	-	135	-	-	-	135	-	-	-	168	-	-	-	168	-	-	-	183	-	-	-	183		
19					72	89	119	128	102	128	-	-	128	-	-	-	128	-	-	-	159	-	-	-	159	-	-	-	174	-	-	-	174	
20					62	78	103	121	89	111	-	-	121	118	-	-	121	150	-	-	151	-	-	-	151	-	-	-	165	-	-	-	165	
21									78	97	-	-	115	103	-	-	115	132	-	-	144	-	-	-	144	-	-	-	157	-	-	-	157	
22									68	85	-	-	110	91	-	-	110	116	-	-	137	-	-	-	137	-	-	-	150	-	-	-	150	
23									60	75	100	105	80	100	-	-	105	103	129	-	131	128	-	-	131	-	-	-	143	-	-	-	143	
24									53	67	89	101	71	89	-	-	101	92	115	-	126	114	-	-	126	-	-	-	138	-	-	-	138	
25													64	80	-	-	97	82	102	-	121	102	-	-	121	125	-	-	132	-	-	-	132	
26													57	71	-	-	93	74	92	-	116	92	115	-	-	116	112	-	-	127	-	-	-	127
27													51	64	86	90	90	66	83	110	112	83	104	-	-	112	101	-	-	122	121	-	-	122
28													46	58	77	87	60	75	100	105	75	94	-	-	108	92	115	-	118	110	-	-	118	
29																	54	68	90	98	68	85	-	-	104	83	104	-	114	100	-	-	114	
30																	49	61	82	91	62	77	-	-	101	76	95	-	110	91	-	-	110	
31																	45	56	75	85	56	70	94	-	-	95	69	86	-	104	83	104	-	106
32																						51	64	86	89	63	79	-	98	76	95	-	103	
33																						47	59	79	84	58	72	-	92	70	87	-	100	
34																						43	54	72	79	53	67	-	87	64	80	-	94	
35																						40	50	66	74	49	61	82	82	59	74	-	89	
36																																		84
37																																		80
38																																		76
39																																		72
40																																		68
41																																		65
42																																		62

Notes:

1. Table values apply to uniformly loaded floor joists.
2. Span is measured to the center of each support.
3. Table values do not account for stiffness added by glued or nailed sheathing.
4. Provide at least 1¾" of bearing length at end supports and 3½" at intermediate supports.
5. Provide lateral restraint at supports (e.g. blocking panels, rim board) and along the compression flange of each joist (e.g. floor sheathing, gypsum board ceiling).
6. Use sizing software or consult a professional engineer to analyze conditions outside the scope of this table (e.g. different bearing lengths, concentrated loads) or for multiple span joists if the length of any span is less than half the length of an adjacent span.

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

MULTIPLE-SPAN JOIST: COMMERCIAL—ALLOWABLE UNIFORM FLOOR LOAD (PLF)

Joist Span (ft)	PWI 90																																					
	9½"				11½"				14"				16"				18"				20"				22"				24"									
	Live			TOTAL	Live			TOTAL	Live			TOTAL	Live			TOTAL	Live			TOTAL	Live			TOTAL	Live			TOTAL										
	L/600	L/480	L/360		L/600	L/480	L/360		L/600	L/480	L/360		L/600	L/480	L/360		L/600	L/480	L/360		L/600	L/480	L/360		L/600	L/480	L/360		L/600	L/480	L/360							
6	-	-	-	381	-	-	-	513	-	-	-	514	-	-	-	514	-	-	-	581	-	-	-	581	-	-	-	614	-	-	-	614						
7	-	-	-	327	-	-	-	440	-	-	-	441	-	-	-	441	-	-	-	498	-	-	-	498	-	-	-	526	-	-	-	526						
8	-	-	-	286	-	-	-	385	-	-	-	386	-	-	-	386	-	-	-	436	-	-	-	436	-	-	-	461	-	-	-	461						
9	-	-	-	254	-	-	-	342	-	-	-	343	-	-	-	343	-	-	-	387	-	-	-	387	-	-	-	409	-	-	-	409						
10	-	-	-	229	-	-	-	308	-	-	-	308	-	-	-	308	-	-	-	348	-	-	-	348	-	-	-	368	-	-	-	368						
11	-	-	-	208	-	-	-	280	-	-	-	280	-	-	-	280	-	-	-	317	-	-	-	317	-	-	-	335	-	-	-	335						
12	-	-	-	191	-	-	-	257	-	-	-	257	-	-	-	257	-	-	-	290	-	-	-	290	-	-	-	307	-	-	-	307						
13	171	-	-	176	-	-	-	237	-	-	-	237	-	-	-	237	-	-	-	268	-	-	-	268	-	-	-	283	-	-	-	283						
14	141	-	-	163	-	-	-	220	-	-	-	220	-	-	-	220	-	-	-	249	-	-	-	249	-	-	-	263	-	-	-	263						
15	118	148	-	153	187	-	-	205	-	-	-	206	-	-	-	206	-	-	-	232	-	-	-	232	-	-	-	246	-	-	-	246						
16	100	125	-	143	159	-	-	193	-	-	-	193	-	-	-	193	-	-	-	218	-	-	-	218	-	-	-	230	-	-	-	230						
17					136	170	-	181	-	-	-	181	-	-	-	181	-	-	-	205	-	-	-	205	-	-	-	217	-	-	-	217						
18					117	146	-	171	163	-	-	171	-	-	-	171	-	-	-	194	-	-	-	194	-	-	-	205	-	-	-	205						
19					101	126	-	162	142	-	-	162	-	-	-	162	-	-	-	183	-	-	-	183	-	-	-	194	-	-	-	194						
20					88	110	147	154	124	-	-	154	-	-	-	154	-	-	-	174	-	-	-	174	-	-	-	184	-	-	-	184						
21									109	136	-	147	143	-	-	147	-	-	-	166	-	-	-	166	-	-	-	175	-	-	-	175						
22									96	120	-	140	127	-	-	140	-	-	-	158	-	-	-	158	-	-	-	167	-	-	-	167						
23									85	107	-	134	113	-	-	134	143	-	-	151	-	-	-	151	-	-	-	160	-	-	-	160						
24									76	95	127	129	101	126	-	129	128	-	-	145	-	-	-	145	-	-	-	154	-	-	-	154						
25												90	113	-	123	115	-	-	139	-	-	-	139	-	-	-	147	-	-	-	147							
26												81	101	-	119	103	129	-	-	134	128	-	-	134	-	-	-	142	-	-	-	142						
27												73	91	-	114	93	117	-	-	129	116	-	-	129	-	-	-	136	-	-	-	136						
28												66	83	-	110	84	106	-	-	124	105	-	-	124	127	-	-	132	-	-	-	132						
29																77	96	-	-	120	95	119	-	120	116	-	-	127	-	-	-	127						
30																70	87	-	-	116	87	109	-	116	106	-	-	123	-	-	-	123						
31																64	80	106	-	112	80	99	-	112	97	-	-	119	116	-	-	119						
32																				73	91	-	109	89	111	-	115	106	-	-	-	115						
33																				67	84	-	106	82	102	-	112	98	-	-	-	112						
34																				62	77	-	102	75	94	-	108	90	-	-	-	108						
35																				57	71	95	100	69	87	-	105	83	104	-	-	105						
36																											64	80	-	102	77	96	-	102				
37																											59	74	99	100	71	89	-	100				
38																											55	69	92	97	66	83	-	97				
39																																	62	77	-	94		
40																																		57	72	-	92	
41																																			53	67	89	90
42																																			50	62	83	88

See notes on page 36

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

123 = All Supports

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123 = Not Required