



Notes:

1. Values shown are the maximum uniform loads in pounds per lineal foot (plf), that can be applied to the joist in addition to its own weight.
2. Table values have been adjusted by a factor of $C_M = 0.9$ for outside exposure (above ground) and $C_D = 1.25$ for construction load duration.
3. Span is measured from center of bearing to center of bearing.
4. Table values for CONCRETE LOAD are limited by deflection equal to the lesser of $\frac{1}{4}$ inch or $L/360$, where L is the length of the span.
5. Provide at least $3\frac{1}{2}$ " of bearing length at end supports and $5\frac{1}{4}$ " at intermediate supports.
6. Provide lateral restraint at supports and along the compression flange of each joist at intervals not to exceed 24".
7. Contact Pacific Woodtech or consult a professional engineer to analyze conditions outside the scope of this table (e.g. different bearing conditions, concentrated loads) or for multiple span joists if the length of any span is less than half the length of an adjacent span.
8. Web stiffeners required on all CFI-H90 joists greater than 18" in depth. Web stiffeners required on all CFI-77 and CFI-90 joists greater than 20" in depth.

See *Web Stiffener Requirements* on page 10 for more details.

HOW TO USE THESE TABLES:

1. Calculate the TOTAL LOAD and the CONCRETE LOAD on the joist in pounds per lineal foot (plf). Neglect joist weight. Total Load = DL + LL + CL.
2. Locate under SPAN a span that meets or exceeds the required joist span.
3. Scan from left to right within the SPAN row until you find a cell where both the maximum TOTAL LOAD and the maximum CONCRETE LOAD meet or exceed the required loads.

Span (ft)	Conditions		CFI-77				
			11 $\frac{7}{8}$ "	14"	16"	18"	20"
10	Simple	Concrete (plf)	362	405	404	404	404
		Total (plf)	405	405	404	404	404
	Continuous	Concrete (plf)	285	284	284	284	284
		Total (plf)	285	284	284	284	284
11	Simple	Concrete (plf)	256	357	366	366	366
		Total (plf)	367	366	366	366	366
	Continuous	Concrete (plf)	258	258	258	257	257
		Total (plf)	258	258	258	257	257
12	Simple	Concrete (plf)	185	260	335	334	334
		Total (plf)	335	335	335	334	334
	Continuous	Concrete (plf)	236	236	236	235	235
		Total (plf)	236	236	236	235	235
13	Simple	Concrete (plf)	137	194	254	308	307
		Total (plf)	309	308	308	308	307
	Continuous	Concrete (plf)	217	217	217	217	216
		Total (plf)	217	217	217	217	216
14	Simple	Concrete (plf)	103	146	193	245	285
		Total (plf)	286	286	285	285	285
	Continuous	Concrete (plf)	188	201	201	201	201
		Total (plf)	202	201	201	201	201
15	Simple	Concrete (plf)	79	112	149	190	235
		Total (plf)	266	266	266	265	265
	Continuous	Concrete (plf)	149	188	187	187	187
		Total (plf)	188	188	187	187	187
16	Simple	Concrete (plf)	61	88	117	149	185
		Total (plf)	240	249	248	248	248
	Continuous	Concrete (plf)	118	163	175	175	175
		Total (plf)	176	175	175	175	175
17	Simple	Concrete (plf)		69	92	118	148
		Total (plf)		234	233	233	233
	Continuous	Concrete (plf)		132	165	164	164
		Total (plf)		165	165	164	164
18	Simple	Concrete (plf)			74	95	119
		Total (plf)			220	220	219
	Continuous	Concrete (plf)			140	155	155
		Total (plf)			155	155	155
19	Simple	Concrete (plf)				77	96
		Total (plf)				208	208
	Continuous	Concrete (plf)				146	146
		Total (plf)				146	146
20	Simple	Concrete (plf)				63	79
		Total (plf)				197	197
	Continuous	Concrete (plf)				122	139
		Total (plf)				139	139
21	Simple	Concrete (plf)					65
		Total (plf)					187
	Continuous	Concrete (plf)					126
		Total (plf)					132

CFI-90 ALLOWABLE FORMWORK LOADS

Span (ft)	Conditions		CFI-90				
			11 7/8"	14"	16"	18"	20"
11	Simple	Concrete (plf)	344	395	395	394	394
		Total (plf)	395	395	395	394	394
	Continuous	Concrete (plf)	315	325	325	324	324
		Total (plf)	315	325	325	324	324
12	Simple	Concrete (plf)	252	348	361	360	360
		Total (plf)	361	361	361	360	360
	Continuous	Concrete (plf)	288	297	297	297	296
		Total (plf)	288	297	297	297	296
13	Simple	Concrete (plf)	189	262	332	332	331
		Total (plf)	332	332	332	332	331
	Continuous	Concrete (plf)	266	274	273	273	273
		Total (plf)	266	274	273	273	273
14	Simple	Concrete (plf)	143	200	260	307	307
		Total (plf)	308	308	307	307	307
	Continuous	Concrete (plf)	241	254	253	253	253
		Total (plf)	246	254	253	253	253
15	Simple	Concrete (plf)	110	155	203	255	286
		Total (plf)	287	286	286	286	286
	Continuous	Concrete (plf)	193	236	236	236	235
		Total (plf)	229	236	236	236	235
16	Simple	Concrete (plf)	86	122	160	203	248
		Total (plf)	268	268	268	267	267
	Continuous	Concrete (plf)	155	210	221	221	220
		Total (plf)	215	221	221	221	220
17	Simple	Concrete (plf)	68	97	128	162	200
		Total (plf)	252	252	251	251	251
	Continuous	Concrete (plf)	126	172	207	207	207
		Total (plf)	202	208	207	207	207
18	Simple	Concrete (plf)		77	103	131	162
		Total (plf)		237	237	237	236
	Continuous	Concrete (plf)		142	181	195	195
		Total (plf)		196	196	195	195
19	Simple	Concrete (plf)		62	83	107	132
		Total (plf)		224	224	224	223
	Continuous	Concrete (plf)		118	151	185	184
		Total (plf)		185	185	185	184
20	Simple	Concrete (plf)			68	88	109
		Total (plf)			212	212	212
	Continuous	Concrete (plf)			127	158	175
		Total (plf)			175	175	175
21	Simple	Concrete (plf)				72	90
		Total (plf)				202	201
	Continuous	Concrete (plf)				134	162
		Total (plf)				166	166
22	Simple	Concrete (plf)				60	75
		Total (plf)				192	192
	Continuous	Concrete (plf)				114	138
		Total (plf)				159	158
23	Simple	Concrete (plf)					63
		Total (plf)					183
	Continuous	Concrete (plf)					119
		Total (plf)					151



Notes:

1. Values shown are the maximum uniform loads in pounds per lineal foot (plf), that can be applied to the joist in addition to its own weight.
2. Table values have been adjusted by a factor of $C_M = 0.9$ for outside exposure (above ground) and $C_D = 1.25$ for construction load duration.
3. Span is measured from center of bearing to center of bearing.
4. Table values for CONCRETE LOAD are limited by deflection equal to the lesser of $1/4$ inch or $L/360$, where L is the length of the span.
5. Provide at least $3\frac{1}{2}$ " of bearing length at end supports and $5\frac{1}{4}$ " at intermediate supports.
6. Provide lateral restraint at supports and along the compression flange of each joist at intervals not to exceed 24".
7. Contact Pacific Woodtech or consult a professional engineer to analyze conditions outside the scope of this table (e.g. different bearing conditions, concentrated loads) or for multiple span joists if the length of any span is less than half the length of an adjacent span.
8. Web stiffeners required on all CFI-H90 joists greater than 18" in depth. Web stiffeners required on all CFI-77 and CFI-90 joists greater than 20" in depth.

See *Web Stiffener Requirements* on page 10 for more details.

HOW TO USE THESE TABLES:

1. Calculate the TOTAL LOAD and the CONCRETE LOAD on the joist in pounds per lineal foot (plf). Neglect joist weight. Total Load = DL + LL + CL.
2. Locate under SPAN a span that meets or exceeds the required joist span.
3. Scan from left to right within the SPAN row until you find a cell where both the maximum TOTAL LOAD and the maximum CONCRETE LOAD meet or exceed the required loads.



Notes:

1. Values shown are the maximum uniform loads in pounds per lineal foot (plf), that can be applied to the joist in addition to its own weight.
2. Table values have been adjusted by a factor of $C_M = 0.9$ for outside exposure (above ground) and $C_D = 1.25$ for construction load duration.
3. Span is measured from center of bearing to center of bearing.
4. Table values for CONCRETE LOAD are limited by deflection equal to the lesser of $\frac{1}{4}$ inch or $L/360$, where L is the length of the span.
5. Provide at least $3\frac{1}{2}$ " of bearing length at end supports and $5\frac{1}{4}$ " at intermediate supports.
6. Provide lateral restraint at supports and along the compression flange of each joist at intervals not to exceed 24".
7. Contact Pacific Woodtech or consult a professional engineer to analyze conditions outside the scope of this table (e.g. different bearing conditions, concentrated loads) or for multiple span joists if the length of any span is less than half the length of an adjacent span.
8. Web stiffeners required on all CFI-H90 joists greater than 18" in depth. Web stiffeners required on all CFI-77 and CFI-90 joists greater than 20" in depth.

See *Web Stiffener Requirements* on page 10 for more details.

HOW TO USE THESE TABLES:

1. Calculate the TOTAL LOAD and the CONCRETE LOAD on the joist in pounds per lineal foot (plf). Neglect joist weight. Total Load = DL + LL + CL.
2. Locate under SPAN a span that meets or exceeds the required joist span.
3. Scan from left to right within the SPAN row until you find a cell where both the maximum TOTAL LOAD and the maximum CONCRETE LOAD meet or exceed the required loads.

Span (ft)	Conditions		CFI-H90				
			11 $\frac{7}{8}$ "	14"	16"	18"	20"
11	Simple	Concrete (plf)	307	311	314	317	574
		Total (plf)	307	311	314	317	574
	Continuous*	Concrete (plf)					
		Total (plf)					
12	Simple	Concrete (plf)	264	284	287	289	524
		Total (plf)	280	284	287	289	524
	Continuous*	Concrete (plf)					
		Total (plf)					
13	Simple	Concrete (plf)	198	261	264	266	483
		Total (plf)	258	261	264	266	483
	Continuous*	Concrete (plf)					
		Total (plf)					
14	Simple	Concrete (plf)	151	209	244	246	422
		Total (plf)	239	242	244	246	447
	Continuous*	Concrete (plf)					
		Total (plf)					
15	Simple	Concrete (plf)	116	162	211	229	335
		Total (plf)	222	225	227	229	416
	Continuous*	Concrete (plf)					
		Total (plf)					
16	Simple	Concrete (plf)	91	128	167	214	268
		Total (plf)	208	211	212	214	390
	Continuous*	Concrete (plf)					
		Total (plf)					
17	Simple	Concrete (plf)	72	102	133	177	216
		Total (plf)	195	198	199	201	366
	Continuous*	Concrete (plf)					
		Total (plf)					
18	Simple	Concrete (plf)		82	108	144	176
		Total (plf)		186	188	190	345
	Continuous*	Concrete (plf)					
		Total (plf)					
19	Simple	Concrete (plf)		66	87	118	145
		Total (plf)		176	178	179	326
	Continuous*	Concrete (plf)					
		Total (plf)					
20	Simple	Concrete (plf)			72	97	120
		Total (plf)			168	170	309
	Continuous*	Concrete (plf)					
		Total (plf)					
21	Simple	Concrete (plf)				80	100
		Total (plf)				161	294
	Continuous*	Concrete (plf)					
		Total (plf)					
22	Simple	Concrete (plf)				67	83
		Total (plf)				154	280
	Continuous*	Concrete (plf)					
		Total (plf)					
23	Simple	Concrete (plf)					70
		Total (plf)					268
	Continuous*	Concrete (plf)					
		Total (plf)					

*Contact Pacific Woodtech for guidance on continuous-span conditions.

CFI-90 CAMBERED I-JOIST ALLOWABLE FORMWORK LOADS

Span (ft)	Conditions		CFI-90 Cambered I-Joist				
			11 7/8"	14"	16"	18"	20"
10	Simple	Concrete (plf)	436	436	436	435	435
		Total (plf)	436	436	436	435	435
11	Simple	Concrete (plf)	395	395	395	394	394
		Total (plf)	395	395	395	394	394
12	Simple	Concrete (plf)	346	361	361	360	360
		Total (plf)	361	361	361	360	360
13	Simple	Concrete (plf)	272	332	332	332	331
		Total (plf)	332	332	332	332	331
14	Simple	Concrete (plf)	217	303	307	307	307
		Total (plf)	308	308	307	307	307
15	Simple	Concrete (plf)	176	248	286	286	286
		Total (plf)	287	286	286	286	286
16	Simple	Concrete (plf)	145	205	268	267	267
		Total (plf)	268	268	268	267	267
17	Simple	Concrete (plf)	121	172	226	251	251
		Total (plf)	252	252	251	251	251
18	Simple	Concrete (plf)	102	146	192	237	236
		Total (plf)	237	237	237	237	236
19	Simple	Concrete (plf)	87	125	165	211	223
		Total (plf)	224	224	224	224	223
20	Simple	Concrete (plf)	75	108	143	183	212
		Total (plf)	213	213	212	212	212
21	Simple	Concrete (plf)	65	94	125	160	199
		Total (plf)	202	202	202	202	201
22	Simple	Concrete (plf)		82	110	141	176
		Total (plf)		193	192	192	192
23	Simple	Concrete (plf)		72	97	126	157
		Total (plf)		184	184	183	183
24	Simple	Concrete (plf)		64	87	112	140
		Total (plf)		176	176	175	175
25	Simple	Concrete (plf)			77	100	126
		Total (plf)			168	168	168
26	Simple	Concrete (plf)			70	90	114
		Total (plf)			162	161	161



Notes:

1. Values shown are the maximum uniform loads in pounds per lineal foot (plf), that can be applied to the joist in addition to its own weight.
2. Table values have been adjusted by a factor of $C_M = 0.9$ for outside exposure (above ground) and $C_D = 1.25$ for construction load duration.
3. Cambered joists are manufactured with a radius of 2250'.
4. Span is measured from center of bearing to center of bearing.
5. Table values for CONCRETE LOAD are limited by deflection equal to the lesser of 1/4 inch or $L/360$, where L is the length of the span.
6. Provide at least 3 1/2" of bearing length at end supports.
7. Provide lateral restraint at supports and along the compression flange of each joist at intervals not to exceed 24".
8. Contact Pacific Woodtech or consult a professional engineer to analyze conditions outside the scope of this table (e.g. different bearing conditions, concentrated loads).
9. Web stiffeners required on CFI-90 joists greater than 20" in depth. See *Web Stiffener Requirements* on page 10 for more details.

HOW TO USE THESE TABLES:

1. Calculate the TOTAL LOAD and the CONCRETE LOAD on the joist in pounds per lineal foot (plf). Neglect joist weight. Total Load = DL + LL + CL.
2. Locate under SPAN a span that meets or exceeds the required joist span.
3. Scan from left to right within the SPAN row until you find a cell where both the maximum TOTAL LOAD and the maximum CONCRETE LOAD meet or exceed the required loads.



Span (ft)	Conditions		CFI-H20
			7 7/8"
4	Simple	Concrete (plf)	1852
		Total (plf)	1852
	Continuous	Concrete (plf)	1054
		Total (plf)	1054
5	Simple	Concrete (plf)	1458
		Total (plf)	1458
	Continuous	Concrete (plf)	836
		Total (plf)	836
6	Simple	Concrete (plf)	968
		Total (plf)	1066
	Continuous	Concrete (plf)	693
		Total (plf)	693
7	Simple	Concrete (plf)	645
		Total (plf)	771
	Continuous	Concrete (plf)	591
		Total (plf)	591
8	Simple	Concrete (plf)	435
		Total (plf)	583
	Continuous	Concrete (plf)	516
		Total (plf)	516
9	Simple	Concrete (plf)	276
		Total (plf)	456
	Continuous	Concrete (plf)	441
		Total (plf)	441
10	Simple	Concrete (plf)	183
		Total (plf)	366
	Continuous	Concrete (plf)	347
		Total (plf)	356
11	Simple	Concrete (plf)	125
		Total (plf)	301
	Continuous	Concrete (plf)	246
		Total (plf)	293
12	Simple	Concrete (plf)	88
		Total (plf)	251
	Continuous	Concrete (plf)	179
		Total (plf)	245

Notes:

1. Values shown are the maximum uniform loads in pounds per lineal foot (plf), that can be applied to the joist in addition to its own weight.
2. Table values have been adjusted by a factor of $C_M = 0.9$ for outside exposure (above ground) and $C_D = 1.25$ for construction load duration.
3. Span is measured from center of bearing to center of bearing.
4. Table values for CONCRETE LOAD are limited by deflection equal to the lesser of 1/4 inch or $L/360$, where L is the length of the span.
5. Provide at least 3 1/2" of bearing length at end supports and 5 1/4" at intermediate supports.
6. Provide lateral restraint at supports and along the compression flange of each joist at intervals not to exceed 24".
7. Contact Pacific Woodtech or consult a professional engineer to analyze conditions outside the scope of this table (e.g. different bearing conditions, concentrated loads) or for multiple span joists if the length of any span is less than half the length of an adjacent span.
8. Web stiffeners required on all CFI-H90 joists greater than 18" in depth. Web stiffeners required on all CFI-77 and CFI-90 joists greater than 20" in depth.
See *Web Stiffener Requirements* on page 10 for more details.

