

## 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.