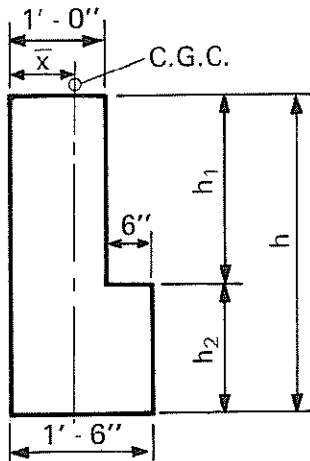


L-SHAPED BEAMS

TYPE "B" LOAD TABLE

Normal Weight Concrete



Place strand symmetrical about C.G.C.

Section Properties									
Designation	h (in.)	h ₁ /h ₂ (in.)	A (in. ²)	I (in. ⁴)	y _b (in.)	Z _b (in. ³)	Z _t (in. ³)	wt (plf)	\bar{x} (in.)
18LB20	20	12/8	288	9696	9.00	1077	882	300	7.50
18LB22	22	14/8	312	12,894	9.92	1300	1067	325	7.38
18LB26	26	14/12	384	21,307	11.69	1823	1489	400	7.69
18LB30	30	18/12	432	32,724	13.50	2424	1983	450	7.50
18LB36	36	24/12	504	56,407	16.29	3463	2862	525	7.29
18LB40	40	24/16	576	77,568	18.00	4309	3526	600	7.50
18LB44	44	28/16	624	103,153	19.85	5197	4271	650	7.39
18LB48	48	32/16	672	133,705	21.71	6159	5086	700	7.29
18LB52	52	36/16	720	169,613	23.60	7187	5972	750	7.20
18LB56	56	40/16	768	211,264	25.50	8285	6927	800	7.13
18LB60	60	44/16	816	259,046	27.41	9451	7949	850	7.06

Key

- 1551 – Safe superimposed load, plf
- 0.39 – Anticipated initial camber, in.
- 0.81 – Deflection due to superimposed load shown, in.

Table of Safe Superimposed Loads, Cambers and Deflections

Designation	No. Strand	e	Span, ft.																
			16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
18LB20	8	6.45	6206	4841	3864	3141	2592	2164	1825	1551									
			0.14	0.17	0.21	0.24	0.28	0.32	0.36	0.39									
			0.26	0.33	0.40	0.48	0.56	0.64	0.73	0.81									
18LB22	8	7.53	7227	5642	4508	3669	3031	2535	2141	1823	1563								
			0.12	0.15	0.18	0.22	0.25	0.28	0.32	0.35	0.38								
			0.23	0.29	0.35	0.42	0.49	0.56	0.64	0.72	0.80								
18LB26	10	8.46	8089	6476	5283	4375	3669	3108	2656	2286	1979	1722	1505						
			0.13	0.16	0.19	0.22	0.25	0.28	0.31	0.34	0.37	0.40	0.42						
			0.25	0.31	0.36	0.43	0.49	0.56	0.63	0.71	0.78	0.85	0.92						
18LB30	12	9.68	8921	7295	6058	5095	4331	3715	3211	2793	2442	2146	1893	1675					
			0.14	0.17	0.20	0.23	0.26	0.29	0.32	0.35	0.38	0.41	0.44	0.46					
			0.27	0.33	0.39	0.45	0.51	0.58	0.65	0.72	0.79	0.86	0.93	1.00					
18LB36	14	11.97	8760	7386	6297	5417	4698	4101	3602	3179	2818	2507	2237	2002	1796	1614			
			0.17	0.20	0.22	0.25	0.28	0.31	0.34	0.37	0.39	0.42	0.45	0.47	0.49	0.51			
			0.32	0.38	0.43	0.49	0.55	0.61	0.67	0.74	0.80	0.87	0.93	1.00	1.06	1.12			
18LB40	16	12.90	9256	7898	6803	5906	5163	4541	4014	3564	3177	2841	2549	2292	2065				
			0.18	0.20	0.23	0.26	0.28	0.31	0.33	0.36	0.39	0.41	0.43	0.45	0.47				
			0.34	0.39	0.45	0.50	0.56	0.62	0.68	0.74	0.80	0.86	0.92	0.98	1.04				
18LB44	18	14.15	9765	8422	7324	6413	5650	5004	4453	3979	3567	3209	2894	2616					
			0.19	0.22	0.24	0.27	0.29	0.32	0.35	0.37	0.40	0.42	0.45	0.47					
			0.37	0.41	0.47	0.52	0.58	0.63	0.69	0.75	0.81	0.87	0.93	0.99					
18LB48	20	15.39	8881	7787	6870	6094	5432	4862	4368	3936	3558	3224							
			0.23	0.25	0.28	0.31	0.33	0.36	0.38	0.41	0.43	0.46							
			0.44	0.49	0.54	0.60	0.65	0.71	0.77	0.83	0.89	0.95							
18LB52	22	16.40	9212	8136	7226	6448	5779	5199	4693	4249	3857								
			0.24	0.26	0.29	0.31	0.34	0.36	0.39	0.41	0.44								
			0.46	0.51	0.56	0.61	0.67	0.72	0.78	0.83	0.89								
18LB56	22	18.71	9240	8211	7332	6576	5921	5349	4847	4405									
			0.24	0.27	0.29	0.31	0.34	0.36	0.38	0.41									
			0.46	0.51	0.56	0.61	0.66	0.71	0.76	0.82									
18LB60	24	19.93	9575	8558	7684	6926	6264	5684	5171										
			0.26	0.28	0.30	0.33	0.35	0.37	0.40										
			0.48	0.53	0.58	0.63	0.68	0.73	0.78										

Notes: All safe loads shown on this sheet are controlled by ultimate. Additional top reinforcing required.
 $f'_c = 5000$ psi $f_{pu} = 270,000$ psi