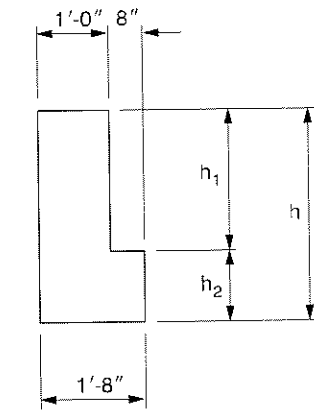


L-BEAMS

Normal Weight Concrete



$f'_c = 5,000$ psi
 $f_{pu} = 270,000$ psi
 1/2 in. diameter
 low-relaxation strand

Section Properties								
Designation	h in.	h_1/h_2 in.	A in ²	I in ⁴	y_b in.	S_b in ³	S_t in ³	wt plf
20LB20	20	12/8	304	10,160	8.74	1,163	902	317
20LB24	24	12/12	384	17,568	10.50	1,673	1,301	400
20LB28	28	16/12	432	27,883	12.22	2,282	1,767	450
20LB32	32	20/12	480	41,600	14.00	2,971	2,311	500
20LB36	36	24/12	528	59,119	15.82	3,737	2,930	550
20LB40	40	24/16	608	81,282	17.47	4,653	3,608	633
20LB44	44	28/16	656	108,107	19.27	5,610	4,372	683
20LB48	48	32/16	704	140,133	21.09	6,645	5,208	733
20LB52	52	36/16	752	177,752	22.94	7,749	6,117	783
20LB56	56	40/16	800	221,355	24.80	8,926	7,095	833
20LB60	60	44/16	848	271,332	26.68	10,170	8,143	883

1. Check local area for availability of other sizes.
2. Safe loads shown include 50% superimposed dead load and 50% live load. 800 psi top tension has been allowed, therefore additional top reinforcement is required.
3. Safe loads can be significantly increased by use of structural composite topping.

Key

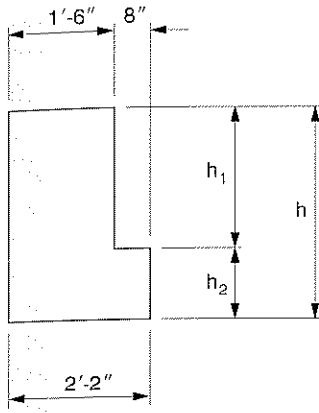
- 6,471 — Safe superimposed service load, plf
- 0.3 — Estimated camber at erection, in.
- 0.1 — Estimated long-time camber, in.

Table of safe superimposed service load (plf) and cambers

Designation	No. Strand	e	Span, ft																	
			16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
20LB20	9	6.00	6471	5053	4038	3288	2717	2273	1920	1636	1403	1210	1049							
			0.3	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.0	1.1							
20LB24	10	7.37	9518	7444	5961	4864	4029	3380	2865	2449	2108	1826	1590	1390	1219	1072				
			0.3	0.3	0.4	0.4	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.0	1.1					
20LB28	12	8.56	8193	6701	5566	4682	3981	3416	2953	2569	2248	1976	1744	1544	1370	1219	1087	970		
			0.3	0.4	0.5	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.0	1.1	1.1	1.1	1.1	1.2	1.2	
20LB32	14	9.80	8820	7330	6187	5272	4534	3931	3430	3011	2656	2353	2092	1866	1669	1496	1343			
			0.4	0.4	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.0	1.1	1.1	1.1	1.1	1.2	1.2	
20LB36	16	11.05	9335	7881	6727	5796	5034	4402	3873	3425	3043	2714	2428	2180	1961	1768				
			0.4	0.5	0.5	0.6	0.7	0.7	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.2	1.2		
20LB40	18	11.99	9663	8253	7116	6185	5413	4767	4220	3752	3350	3002	2698	2431	2196					
			0.4	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.9	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
20LB44	19	13.61	8866	7718	6766	5969	5294	4717	4221	3791	3416	3087	2797							
			0.5	0.6	0.7	0.7	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
20LB48	21	14.86	9231	8101	7155	6353	5669	5081	4570	4125	3735	3390								
			0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
20LB52	23	16.12	9545	8438	7500	6700	6011	5415	4894	4437	4033									
			0.5	0.6	0.6	0.7	0.8	0.8	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
20LB56	25	17.37	9817	8733	7808	7012	6323	5721	5192	4726										
			0.6	0.6	0.7	0.7	0.8	0.8	0.9	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
20LB60	27	18.63	8996	8086	7296	6608	6004	5470												
			0.6	0.7	0.7	0.8	0.8	0.9	0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1

L-BEAMS

Normal Weight Concrete



$f'_c = 5,000$ psi
 $f_{pu} = 270,000$ psi

1/2 in. diameter
 low-relaxation strand

Section Properties								
Designation	h in.	h ₁ /h ₂ in.	A in ²	I in. ⁴	y _b in.	S _b in ³	S _t in ³	wt plf
26LB20	20	12/8	424	14,298	9.09	1,573	1,311	442
26LB24	24	12/12	528	24,716	10.91	2,265	1,898	550
26LB28	28	16/12	600	39,241	12.72	3,085	2,568	625
26LB32	32	20/12	672	58,533	14.57	4,017	3,358	700
26LB36	36	24/12	744	83,176	16.45	5,056	4,255	775
26LB40	40	24/16	848	114,381	18.19	6,288	5,244	883
26LB44	44	28/16	920	152,104	20.05	7,586	6,351	958
26LB48	48	32/16	992	197,159	21.94	8,986	7,566	1,033
26LB52	52	36/16	1,084	250,126	23.83	10,496	8,879	1,108
26LB56	56	40/16	1,136	311,586	25.75	12,100	10,300	1,183
26LB60	60	44/16	1,208	382,118	27.67	13,810	11,819	1,258

1. Check local area for availability of other sizes.
2. Safe loads shown include 50% superimposed dead load and 50% live load. 800 psi top tension has been allowed, therefore additional top reinforcement is required.
3. Safe loads can be significantly increased by use of structural composite topping.

Key

- 9.737 — Safe superimposed service load, plf
- 0.4 — Estimated camber at erection, in.
- 0.2 — Estimated long-time camber, in.

Table of safe superimposed service load (plf) and cambers

Designation	No. Strand	e	Span, ft																		
			16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	
26LB20	15	6.35	9737	7609	6088	4962	4106	3439	2911	2484	2135	1846	1603	1398	1223	1072					
			0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.3	1.4	1.5	1.6	1.7	1.7					
			0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6				
26LB24	15	7.78			8987	7341	6089	5115	4342	3718	3208	2785	2430	2130	1874	1654	1463	1296	1150	1020	
					0.4	0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	1.2	1.3	1.3	1.4	1.4	1.4	1.4	1.4
					0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0
26LB28	18	9.06					8394	7069	6017	5169	4474	3899	3417	3009	2660	2361	2101	1874	1675	1499	
							0.5	0.6	0.7	0.8	0.9	0.9	1.0	1.1	1.2	1.3	1.3	1.4	1.4	1.4	1.5
							0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
26LB32	21	10.37						9325	7953	6847	5941	5191	4562	4029	3575	3184	2845	2549	2289	2060	
							0.6	0.6	0.7	0.8	0.9	1.0	1.0	1.1	1.2	1.3	1.3	1.4	1.4	1.4	1.4
							0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
26LB36	24	11.68							8739	7596	6648	5855	5183	4609	4116	3688	3314	2987	2698		
							0.6	0.7	0.8	0.9	1.0	1.0	1.1	1.2	1.3	1.3	1.4	1.4	1.4	1.4	1.4
							0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
26LB40	27	12.71								9338	8180	7210	6390	5689	5086	4563	4107	3707	3354		
							0.7	0.7	0.8	0.9	0.9	1.0	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.4	1.3
							0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
26LB44	28	14.39									9013	8001	7136	6392	5747	5185	4684	4244			
							0.7	0.8	0.9	0.9	1.0	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.2
							0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
26LB48	32	15.71										9590	8564	7681	6916	6248	5662	5145			
							0.8	0.8	0.9	1.0	1.0	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.2	
							0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
26LB52	35	17.01											9077	8182	7401	6715	6110				
							0.9	0.9	1.0	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.2	
							0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
26LB56	37	18.32													9544	8641	7849	7150			
							0.9	0.9	1.0	1.0	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.0
							0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
26LB60	38	19.62															9972	9066	8266		
							0.8	0.9	1.0	1.0	1.1	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1.4	1.0
							0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3