



Mid South Prestress, LLC

2949 Joe Dowlen Rd. - Pleasant View, TN 37146 - P: 615-746-6606 - www.msprestress.com



Dead Load Allowance: 10 psf (Untopped)
15 psf (topped)

Key: 118 Safe superimposed live load, psf
 0.1 Estimated Camber at Erection, in
 0.2 Estimated Long-Time Camber, in
 -0.3 Estimated Long-Term Deflection, in

$f'c = 5000$ psi
 $f'ci = 3500$ psi
 $f'ct = 3000$ psi
 $fpu = 270$ ksi

12" HS Hollowcore
(Long-Term Deflection Limited To L/240)

12" HS HC (UNTOPPED)

SPAN (FT)

Strand Pattern	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
4-1/2	118	105	93	82	72	63	55	48	41	35											
	0.1	0.1	0.1	0.1	0	0	-0.1	-0.1	-0.2	-0.3											
	0.2	0.1	0.1	0.1	0	-0.1	-0.1	-0.2	-0.3	-0.4											
	-0.3	-0.3	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5										
6-1/2	207	188	171	155	141	128	116	105	95	86	78	70	63	56	50	44	39				
	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6				
	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.1	0	-0.1	-0.2	-0.3	-0.4	-0.6	-0.7	-0.9				
	-0.5	-0.5	-0.5	-0.6	-0.6	-0.6	-0.7	-0.7	-0.7	-0.8	-0.8	-0.9	-1	-1	-1.1	-1.2	-1.3				
8-1/2	292	267	245	224	206	189	174	160	147	135	124	114	104	96	88	80	73	67	61	55	49
	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.3	0.2	0.2	0.1	-0.1	-0.2	-0.3	-0.5
	0.7	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.5	0.4	0.3	0.2	0.1	-0.1	-0.2	-0.4	-0.6	-0.8
	-0.6	-0.7	-0.8	-0.8	-0.8	-0.9	-0.9	-1	-1.1	-1.1	-1.2	-1.3	-1.3	-1.4	-1.5	-1.6	-1.7	-1.8	-1.9	-2	-2
10-1/2	352s	331s	310s	280s	265	245	226	209	194	179	166	154	143	132	122	113	105	97	90	83	75
	0.9	0.9	0.9	0.9	1	1	1	1	1	1	1	1	0.9	0.9	0.8	0.8	0.7	0.6	0.5	0.4	0.3
	1	1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1	0.9	0.9	0.8	0.7	0.5	0.4	0.2
	-0.8	-0.9	-1	-1	-1.1	-1.1	-1.2	-1.3	-1.3	-1.4	-1.5	-1.6	-1.6	-1.7	-1.8	-1.9	-2	-2	-2.2	-2.3	-2.4
12-1/2	372s	347s	327s	307s	290s	274s	259s	242	224	208	194	180	167	156	145	135	125	116	106	98	90
	1	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.1	1.1	1	0.9	0.8
	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.3	1.2	1.1	1	0.8
	-0.8	-0.9	-1	-1	-1.1	-1.2	-1.3	-1.4	-1.5	-1.5	-1.6	-1.7	-1.8	-1.9	-2	-2.1	-2.1	-2.2	-2.3	-2.3	-2.4
14-1/2	392s	366s	338	312	288	266	245	228	211	196	181	168	156	145	134	125	116	107	99	92	85
	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.4	1.4	1.3
	1.5	1.5	1.6	1.6	1.7	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.7	1.7	1.6	1.5
	-0.9	-0.9	-1	-1.1	-1.1	-1.2	-1.2	-1.3	-1.3	-1.3	-1.4	-1.4	-1.5	-1.6	-1.6	-1.7	-1.8	-1.8	-1.9	-2	-2.1

12" HS HC (TOPPED)

SPAN (FT)

Strand Pattern	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
4-1/2	100	87	76	65	56	47	39														
	0.1	0.1	0	0	-0.1	-0.1	-0.2														
	0	-0.1	-0.1	-0.2	-0.3	-0.4	-0.5														
	-0.3	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5														
6-1/2	188	170	154	139	125	112	101	90	81	71	63	55	48	41	35						
	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6						
	0.3	0.2	0.2	0.1	0.1	0	-0.1	-0.2	-0.3	-0.4	-0.6	-0.7	-0.9	-1.1	-1.3						
	-0.5	-0.5	-0.5	-0.6	-0.7	-0.7	-0.8	-0.9	-1	-1.1	-1.3	-1.4	-1.6	-1.8	-2						
8-1/2	272	249	227	208	190	174	159	145	133	121	110	100	91	82	74	67	58	49	41	33	26
	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0	-0.2	-0.3	-0.5	-0.6	-0.8
	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.2	0.1	0	-0.2	-0.3	-0.5	-0.6	-0.8	-1.1	-1.3	-1.6	-1.8
	-0.6	-0.6	-0.7	-0.7	-0.8	-0.9	-1	-1.1	-1.2	-1.3	-1.4	-1.5	-1.7	-1.8	-2	-2.2	-2.3	-2.3	-2.4	-2.4	-2.5
10-1/2	351	323	297	273	252	232	214	198	182	168	155	143	131	121	111	102	91	81	71	62	54
	0.9	0.9	1	1	1	1	1	1	1	1	0.9	0.9	0.9	0.8	0.7	0.6	0.6	0.5	0.3	0.2	0.1
	1	1	1	1	1	1	0.9	0.9	0.8	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0	-0.2	-0.4	-0.6	-0.8
	-0.7	-0.8	-0.8	-0.9	-1	-1	-1.1	-1.2	-1.3	-1.4	-1.5	-1.6	-1.8	-1.9	-2	-2.2	-2.3	-2.3	-2.3	-2.4	-2.5
12-1/2	391s	369s	346s	325	300	278	257	238	221	205	190	176	163	151	139	126	114	102	92	82	72
	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.1	1.1	1	0.9	0.8	0.7	0.6	0.6
	1.2	1.2	1.2	1.2	1.3	1.3	1.2	1.2	1.2	1.2	1.1	1.1	1	0.9	0.8	0.7	0.5	0.4	0.2	0	-0.2
	-0.8	-0.8	-0.9	-1	-1.1	-1.2	-1.3	-1.4	-1.5	-1.6	-1.7	-1.8	-1.9	-2.1	-2.2	-2.2	-2.3	-2.3	-2.4	-2.4	-2.5
14-1/2	414s	390s	367s	344s	327s	306s	291s	274s	256	238	222	207	192	176	160	146	133	120	109	98	88
	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.4	1.3	1.2	1.1
	1.4	1.4	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.5	1.5	1.4	1.3	1.3	1.2	1.1	0.9	0.8	0.6	0.4
	-0.8	-0.9	-0.9	-1	-1.1	-1.2	-1.4	-1.5	-1.6	-1.7	-1.8	-2	-2.1	-2.1	-2.2	-2.2	-2.3	-2.3	-2.4	-2.4	-2.5



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Key: 118 Safe superimposed live load, psf
 0.1 Estimated Camber at Erection, in
 0.2 Estimated Long-Time Camber, in
 -0.3 Estimated Long-Term Deflection, in

$f'c = 5000$ psi
 $f'ci = 3500$ psi
 $f'ct = 3000$ psi
 $fpu = 270$ ksi

12" HS Hollowcore
(Long-Term Deflection Limited To L/360)

12" HS HC (UNTOPPED)

SPAN (FT)

Strand Pattern	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
4-1/2	118	105	93	82	72	63	55	48	41	35											
	0.1	0.1	0.1	0.1	0	0	-0.1	-0.1	-0.2	-0.3											
	0.2	0.1	0.1	0.1	0	-0.1	-0.1	-0.2	-0.3	-0.4											
	-0.3	-0.3	-0.3	-0.4	-0.4	-0.4	-0.4	-0.4	-0.5	-0.5											
6-1/2	207	188	171	155	141	128	116	105	95	86	78	70	63	56	50	44	39				
	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6				
	0.4	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.1	0	-0.1	-0.2	-0.3	-0.4	-0.6	-0.7	-0.9				
	-0.5	-0.5	-0.5	-0.6	-0.6	-0.6	-0.7	-0.7	-0.7	-0.8	-0.8	-0.9	-1	-1	-1.1	-1.2	-1.3				
8-1/2	292	267	245	224	206	189	174	160	147	135	124	114	104	94	85	77	69	61	55	48	42
	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.3	0.2	0.2	0.1	-0.1	-0.2	-0.3	-0.5
	0.7	0.7	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.6	0.6	0.5	0.4	0.3	0.2	0.1	-0.1	-0.2	-0.4	-0.6	-0.8
	-0.6	-0.7	-0.8	-0.8	-0.8	-0.9	-0.9	-1	-1.1	-1.1	-1.2	-1.3	-1.3	-1.3	-1.4	-1.4	-1.5	-1.5	-1.5	-1.5	-1.5
10-1/2	352s	331s	310s	280s	265	245	224	205	187	171	156	143	130	118	106	95	86	77	68	61	54
	0.9	0.9	0.9	0.9	1	1	1	1	1	1	1	1	0.9	0.9	0.8	0.8	0.7	0.6	0.5	0.4	0.3
	1	1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1	0.9	0.9	0.8	0.7	0.5	0.4	0.2
	-0.8	-0.9	-1	-1	-1.1	-1.1	-1.1	-1.2	-1.2	-1.2	-1.3	-1.3	-1.3	-1.4	-1.4	-1.4	-1.5	-1.5	-1.5	-1.6	-1.6
12-1/2	372s	347s	327s	307s	290s	270	246	223	202	183	165	149	135	122	110	100	90	81	72	64	57
	1	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.1	1.1	1	0.9	0.8
	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.4	1.3	1.2	1.1	1	0.8
	-0.8	-0.9	-1	-1	-1.1	-1.1	-1.2	-1.2	-1.2	-1.2	-1.3	-1.3	-1.3	-1.4	-1.4	-1.4	-1.5	-1.5	-1.5	-1.6	-1.6
14-1/2	392s	366s	338	312	288	266	245	228	206	187	169	153	139	126	114	103	93	84	75	67	60
	1.2	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.4	1.4	1.3
	1.5	1.5	1.6	1.6	1.7	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.7	1.7	1.6	1.5
	-0.9	-0.9	-1	-1.1	-1.1	-1.2	-1.2	-1.3	-1.2	-1.2	-1.3	-1.3	-1.3	-1.4	-1.4	-1.4	-1.5	-1.5	-1.5	-1.6	-1.6

12" HS HC (TOPPED)

SPAN (FT)

Strand Pattern	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
4-1/2	100	87	76	65	56	47	39														
	0.1	0.1	0	0	-0.1	-0.1	-0.2														
	0	-0.1	-0.1	-0.2	-0.3	-0.4	-0.5														
	-0.3	-0.4	-0.4	-0.4	-0.5	-0.5	-0.5														
6-1/2	188	170	154	139	125	112	101	90	81	71	63	53	43	34	25						
	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.1	0	-0.1	-0.2	-0.3	-0.4	-0.5	-0.6						
	0.3	0.2	0.2	0.1	0.1	0	-0.1	-0.2	-0.3	-0.4	-0.6	-0.7	-0.9	-1.1	-1.3						
	-0.5	-0.5	-0.5	-0.6	-0.7	-0.7	-0.8	-0.9	-1	-1.1	-1.3	-1.4	-1.4	-1.4	-1.4						
8-1/2	272	249	227	208	190	174	159	145	133	121	108	96	83	72	62	52	44	35	27	20	13
	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.3	0.3	0.2	0.1	0	-0.2	-0.3	-0.5	-0.6	-0.8	-0.8
	0.6	0.6	0.6	0.6	0.5	0.5	0.4	0.4	0.3	0.2	0.1	0	-0.2	-0.3	-0.5	-0.6	-0.8	-1.1	-1.3	-1.6	-1.8
	-0.6	-0.6	-0.7	-0.7	-0.8	-0.9	-1	-1.1	-1.2	-1.3	-1.3	-1.3	-1.4	-1.4	-1.5	-1.5	-1.5	-1.5	-1.6	-1.6	-1.6
10-1/2	351	323	297	273	252	232	214	198	179	162	145	130	116	104	92	80	70	60	50	41	32
	0.9	0.9	1	1	1	1	1	1	1	1	0.9	0.9	0.9	0.8	0.7	0.6	0.6	0.5	0.3	0.2	0.1
	1	1	1	1	1	1	0.9	0.9	0.8	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0	-0.2	-0.4	-0.6	-0.8
	-0.7	-0.8	-0.8	-0.9	-1	-1	-1.1	-1.2	-1.3	-1.3	-1.3	-1.4	-1.4	-1.4	-1.5	-1.5	-1.5	-1.6	-1.6	-1.6	-1.7
12-1/2	391s	369s	346s	325	300	274	249	226	204	184	165	146	129	114	100	87	74	64	54	44	36
	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.2	1.1	1.1	1	0.9	0.8	0.7	0.6	0.6
	1.2	1.2	1.2	1.2	1.3	1.3	1.2	1.2	1.2	1.2	1.1	1.1	1	0.9	0.8	0.7	0.5	0.4	0.2	0	-0.2
	-0.8	-0.8	-0.9	-1	-1.1	-1.2	-1.2	-1.2	-1.2	-1.3	-1.3	-1.3	-1.4	-1.4	-1.4	-1.5	-1.5	-1.5	-1.6	-1.6	-1.6
14-1/2	414s	390s	367s	344s	327s	297	266	238	212	190	169	150	133	118	103	90	78	67	57	48	39
	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.4	1.3	1.2	1.1
	1.4	1.4	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.5	1.5	1.5	1.4	1.3	1.3	1.2	1.1	0.9	0.8	0.6	0.4
	-0.8	-0.9	-0.9	-1	-1.1	-1.2	-1.2	-1.2	-1.2	-1.3	-1.3	-1.3	-1.4	-1.4	-1.4	-1.5	-1.5	-1.5	-1.6	-1.6	-1.6