Toll Free Fax: (866) 531-9619



310 Bussell Ferry Road Lenoir City, TN 37771 Sales @ MetalDeckDirect.com

## 9/16" Form Deck

## **MAXIMUM CONSTRUCTION CLEAR SPANS (S.D.I. CRITERIA)**

Total Slab												
Depth     Type     PSF     1 Span     2 Span     3 Span     PSF     1 Span     2 Span     3 Span       0.6C28     23     2-3     2-10     2-11     17     2-4     3-0     3-0       (t=1 1/2")     0.6C26     23     3-8     3-5     3-5     18     2-9     3-6     3-7       (t=1 1/2")     0.6C24     23     3-4     4-3     4-4     18     3-6     4-6     4-7       0.6C28     29     2-2     2-9     2-10     22     2-3     2-10     2-11       21/2"     0.6C28     29     2-2     2-9     2-10     22     2-3     2-10     2-11       21/2"     0.6C24     29     3-2     4-1     4-2     2     2-8     3-5     3-6     4-4		Deck	Weight									
2"     0.66C28     23     2-3     2-10     2-11     17     2-4     3-0     3-0     3-7     (t=1 1/2")     0.6C26     23     3-4     4-3     3-4     18     3-6     4-6     4-7     3-7     4-6     4-7     4-7     4-6     4-7     4-7     4-6     4-7     4-7     4-7     5-4     4-7     4-7     4-6     4-7     4-7     4-7     4-6     4-7     4-7     4-7     4-6     4-7     4-7     4-7     5-4     4-4     4-4     4-4     4-4     4-4     4-4     4-4     4-4     4-4     4-4     4-4     4-4     4-4     4-4     4-4												
2"	Ворин					2- 11						
(t=1 1/2")     0.6C24     23     3-4     4-3     4-4     18     3-6     4-6     4-7       0.6C28     29     2-2     2-9     2-10     22     2-3     2-10     2-11       2 1/2"     0.6C26     29     2-6     3-3     3-4     22     2-8     3-5     3-6       (t=2")     0.6C24     29     3-2     4-1     4-2     22     2-8     3-5     3-6       (t=2")     0.6C22     29     3-8     4-9     4-10     23     3-11     5-1     5-2       0.6C28     35     2-1     2-8     2-8     27     2-2     2-10     2-10       3"     0.6C28     35     3-0     3-11     4-0     27     3-2     4-2     4-2       (t=2 1/2")     0.6C22     36     3-6     4-7     4-7     27     3-9     4-10     4-1       4     0.6C22     36     3-6     4-7     4-7     27     3-1     2-1     2-9 <td>2"</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	2"											
0.6C22     23     3-10     5-0     5-1     18     4-1     5-4     5-4       2 1/2"     0.6C28     29     2-2     2-9     2-10     22     2-3     2-10     2-11       2 1/2"     0.6C24     29     3-2     4-1     4-2     22     3-4     4-4 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>												
2 1/2"	\ ' ' ' '											
2 1/2"     0.6C26     29     2-6     3-3     3-4     22     2-8     3-5     3-6       (t=2")     0.6C24     29     3-2     4-1     4-2     22     3-4     4-4     4-4       0.6C22     29     3-8     4-9     4-10     23     3-11     5-1     5-2       3"     0.6C28     35     2-1     2-8     2-8     27     2-2     2-10     2-10       3"     0.6C26     35     2-5     3-2     3-2     27     2-7     3-4     3-4       (t=2 1/2")     0.6C24     35     3-0     3-11     4-0     27     3-2     4-2     4-2     4-2       0.6C22     36     3-6     4-7     4-7     27     3-9     4-10     4-11       0.6C28     41     2-0     2-7     2-7     31     2-1     2-9     2-9     3-3     (t=3")     3-3     3-3     3-3     3-3     3-3     3-3     3-1     4-10     4-10												
(t=2")     0.6C24     29     3-2     4-1     4-2     22     3-4     4-4     4-4       0.6C22     29     3-8     4-9     4-10     23     3-11     5-1     5-2       0.6C28     35     2-1     2-8     2-8     27     2-2     2-10     2-10       3"     0.6C26     35     2-5     3-2     3-2     27     2-7     3-4     3-4       (t=21/2")     0.6C24     35     3-0     3-11     4-0     27     3-2     4-2     4-2     4-2       0.6C22     36     3-6     4-7     4-7     27     3-9     4-10     4-11       0.6C28     41     2-0     2-7     2-7     31     2-1     2-9     2-9       3 1/2"     0.6C26     41     2-4     3-0     3-1     31     2-6     3-3     3-3       (t=3")     0.6C24     41     2-10     3-9     3-10     32     3-1     4-0     4-1	2 1/2"											
0.6C22     29     3-8     4-9     4-10     23     3-11     5-1     5-2       3"     0.6C26     35     2-1     2-8     2-8     27     2-2     2-10     2-10     2-10     2-10     2-10     2-10     2-10     2-10     2-10     2-10     2-10     2-10     2-10     2-10     2-10     2-10     2-10     2-10     2-10     3-10     3-11     4-0     2-1     2-7     3-2     4-3     3-3     3-3     3-3     3-3     3-3     3-3     3-3     3-3 <td></td>												
3"     0.6C28     35     2-1     2-8     2-8     27     2-2     2-10     2-10       3"     0.6C26     35     2-5     3-2     3-2     27     2-7     3-4     3-4       (t=2 1/2")     0.6C24     35     3-0     3-11     4-0     27     3-2     4-2     4-2       0.6C22     36     3-6     4-7     4-7     27     3-9     4-10     4-11       0.6C28     41     2-0     2-7     2-7     31     2-1     2-9     2-9       3 1/2"     0.6C26     41     2-4     3-0     3-1     31     2-6     3-3     3-3       (t=3")     0.6C26     41     2-10     3-9     3-10     32     3-1     4-0     4-1       0.6C22     42     3-4     4-5     4-5     32     3-7     4-8     4-9       4"     0.6C28     47     1-11     2-6     2-7     36     2-1     2-8     2-8 <t< td=""><td>  ( - /  </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	( - /											
3"     0.6C26     35     2-5     3-2     3-2     27     2-7     3-4     3-4       (t=2 1/2")     0.6C24     35     3-0     3-11     4-0     27     3-2     4-2     4-2       0.6C22     36     3-6     4-7     4-7     27     3-9     4-10     4-11       0.6C28     41     2-0     2-7     2-7     31     2-1     2-9     2-9       3 1/2"     0.6C26     41     2-4     3-0     3-1     31     2-6     3-3     3-3       (t=3")     0.6C24     41     2-10     3-9     3-10     32     3-1     4-0     4-1       0.6C22     42     3-4     4-5     4-5     32     3-7     4-8     4-9       4"     0.6C22     47     2-6     2-7     36     2-1     2-8     2-8       4"     0.6C28     47     1-11     2-6     2-7     36     2-1     2-8     3-2     3-2     3-2 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>2- 8</td><td></td><td>2- 2</td><td>2- 10</td><td></td></t<>						2- 8		2- 2	2- 10			
(t=2 1/2")     0.6C24     35     3-0     3-11     4-0     27     3-2     4-2     4-2       0.6C22     36     3-6     4-7     4-7     27     3-9     4-10     4-11       0.6C28     41     2-0     2-7     2-7     31     2-1     2-9     2-9       3 1/2"     0.6C26     41     2-4     3-0     3-1     31     2-6     3-3     3-3       (t=3")     0.6C24     41     2-10     3-9     3-10     32     3-1     4-0     4-1       0.6C22     42     3-4     4-5     4-5     32     3-7     4-8     4-9       4"     0.6C28     47     1-11     2-6     2-7     36     2-1     2-8     2-8       4"     0.6C26     47     2-9     3-8     3-8     36     3-0     3-11     3-11       (t=3 1/2")     0.6C24     47     2-9     3-8     3-8     36     3-5     4-6     4-7	3"	0.6C26	35	2- 5		3- 2	27		3-4	3-4		
0.6C22     36     3-6     4-7     4-7     27     3-9     4-10     4-11       0.6C28     41     2-0     2-7     2-7     31     2-1     2-9     2-9       3 1/2"     0.6C26     41     2-4     3-0     3-1     31     2-6     3-3     3-3       (t=3")     0.6C24     41     2-10     3-9     3-10     32     3-1     4-0     4-1       0.6C22     42     3-4     4-5     4-5     32     3-7     4-8     4-9       0.6C28     47     1-11     2-6     2-7     36     2-1     2-8     2-8       4"     0.6C26     47     2-3     2-11     3-0     36     2-5     3-2     3-2       (t=3 1/2")     0.6C24     47     2-9     3-8     3-8     36     3-5     4-6     4-7       0.6C22     48     3-2     4-3     4-3     36     3-5     4-6     4-7       0.6C28     53	(t=2 1/2")	0.6C24			3- 11				4- 2			
3 1/2"     0.6C26     41     2-4     3-0     3-1     31     2-6     3-3     3-3       (t=3")     0.6C24     41     2-10     3-9     3-10     32     3-1     4-0     4-1       0.6C22     42     3-4     4-5     4-5     32     3-7     4-8     4-9       0.6C28     47     1-11     2-6     2-7     36     2-1     2-8     2-8       4"     0.6C26     47     2-3     2-11     3-0     36     2-5     3-2     3-2       (t=3 1/2")     0.6C24     47     2-9     3-8     3-8     36     3-0     3-11     3-11       0.6C22     48     3-2     4-3     4-3     36     3-5     4-6     4-7       4 1/2"     0.6C28     53     1-10     2-5     2-6     40     2-0     2-7     2-8       4 1/2"     0.6C26     53     2-2     2-10     2-11     40     2-4     3-1     3-1	`	0.6C22	36	3- 6	4-7	4- 7	27	3- 9	4- 10	4- 11		
(t=3")     0.6C24     41     2- 10     3- 9     3- 10     32     3- 1     4- 0     4- 1       0.6C22     42     3- 4     4- 5     4- 5     32     3- 7     4- 8     4- 9       0.6C28     47     1- 11     2- 6     2- 7     36     2- 1     2- 8     2- 8       4"     0.6C26     47     2- 3     2- 11     3- 0     36     2- 5     3- 2		0.6C28	41	2- 0	2- 7	2- 7	31	2- 1	2- 9	2- 9		
0.6C22     42     3-4     4-5     4-5     32     3-7     4-8     4-9       0.6C28     47     1-11     2-6     2-7     36     2-1     2-8     2-8       4"     0.6C26     47     2-3     2-11     3-0     36     2-5     3-2     3-2       (t=3 1/2")     0.6C24     47     2-9     3-8     3-8     36     3-0     3-11     3-11       0.6C22     48     3-2     4-3     4-3     36     3-5     4-6     4-7       0.6C28     53     1-10     2-5     2-6     40     2-0     2-7     2-8       4 1/2"     0.6C26     53     2-2     2-10     2-11     40     2-4     3-1     3-1       (t=4")     0.6C24     53     2-8     3-6     3-7     41     2-10     3-9     3-10       0.6C22     54     3-1     4-1     4-2     41     3-4     4-5     4-5       5"     0.6C28	3 1/2"	0.6C26	41	2- 4	3- 0	3- 1	31		3-3	3- 3		
4"     0.6C28     47     1-11     2-6     2-7     36     2-1     2-8     2-8       4"     0.6C26     47     2-3     2-11     3-0     36     2-5     3-2     3-2       (t=3 1/2")     0.6C24     47     2-9     3-8     3-8     36     3-0     3-11     3-11       0.6C22     48     3-2     4-3     4-3     36     3-5     4-6     4-7       0.6C28     53     1-10     2-5     2-6     40     2-0     2-7     2-8       4 1/2"     0.6C26     53     2-2     2-10     2-11     40     2-4     3-1     3-1       (t=4")     0.6C26     53     2-8     3-6     3-7     41     2-10     3-9     3-10       0.6C22     54     3-1     4-1     4-2     41     3-4     4-5     4-5       5"     0.6C28     59     1-10     2-5     2-5     45     1-11     2-6     2-7	(t=3")	0.6C24	41	2- 10	3- 9	3- 10	32	3- 1	4- 0	4-1		
4" 0.6C26 47 2-3 2-11 3-0 36 2-5 3-2 3-2   (t=3 1/2") 0.6C24 47 2-9 3-8 3-8 36 3-0 3-11 3-11   0.6C22 48 3-2 4-3 4-3 36 3-5 4-6 4-7   0.6C28 53 1-10 2-5 2-6 40 2-0 2-7 2-8   4 1/2" 0.6C26 53 2-2 2-10 2-11 40 2-4 3-1 3-1   (t=4") 0.6C24 53 2-8 3-6 3-7 41 2-10 3-9 3-10   0.6C22 54 3-1 4-1 4-2 41 3-4 4-5 4-5   5" 0.6C28 59 1-10 2-5 2-5 45 1-11 2-6 2-7   5" 0.6C26 59 2-1 2-9 2-10 45 2-3 3-0 3-0   (t=4 1/2") 0.6C24 59 2-7 3-5 3-6 45 2-10 3-8 3-9												
(t=3 1/2")     0.6C24     47     2-9     3-8     3-8     36     3-0     3-11     3-11       0.6C22     48     3-2     4-3     4-3     36     3-5     4-6     4-7       0.6C28     53     1-10     2-5     2-6     40     2-0     2-7     2-8       4 1/2"     0.6C26     53     2-2     2-10     2-11     40     2-4     3-1     3-1       (t=4")     0.6C24     53     2-8     3-6     3-7     41     2-10     3-9     3-10       0.6C22     54     3-1     4-1     4-2     41     3-4     4-5     4-5       5"     0.6C28     59     1-10     2-5     2-5     45     1-11     2-6     2-7       5"     0.6C26     59     2-1     2-9     2-10     45     2-3     3-0     3-0       (t=4 1/2")     0.6C24     59     2-7     3-5     3-6     45     2-10     3-8     3-9												
0.6C22     48     3-2     4-3     4-3     36     3-5     4-6     4-7       0.6C28     53     1-10     2-5     2-6     40     2-0     2-7     2-8       4 1/2"     0.6C26     53     2-2     2-10     2-11     40     2-4     3-1     3-1       (t=4")     0.6C24     53     2-8     3-6     3-7     41     2-10     3-9     3-10       0.6C22     54     3-1     4-1     4-2     41     3-4     4-5     4-5       0.6C28     59     1-10     2-5     2-5     45     1-11     2-6     2-7       5"     0.6C26     59     2-1     2-9     2-10     45     2-3     3-0     3-0       (t=4 1/2")     0.6C24     59     2-7     3-5     3-6     45     2-10     3-8     3-9												
0.6C28     53     1- 10     2- 5     2- 6     40     2- 0     2- 7     2- 8       4 1/2"     0.6C26     53     2- 2     2- 10     2- 11     40     2- 4     3- 1     3- 1       (t=4")     0.6C24     53     2- 8     3- 6     3- 7     41     2- 10     3- 9     3- 10       0.6C22     54     3- 1     4- 1     4- 2     41     3- 4     4- 5     4- 5       0.6C28     59     1- 10     2- 5     2- 5     45     1- 11     2- 6     2- 7       5"     0.6C26     59     2- 1     2- 9     2- 10     45     2- 3     3- 0     3- 0       (t=4 1/2")     0.6C24     59     2- 7     3- 5     3- 6     45     2- 10     3- 8     3- 9	(t=3 1/2")	0.6C24			3-8				3- 11			
4 1/2" 0.6C26 53 2- 2 2- 10 2- 11 40 2- 4 3- 1 3- 1   (t=4") 0.6C24 53 2- 8 3- 6 3- 7 41 2- 10 3- 9 3- 10   0.6C22 54 3- 1 4- 1 4- 2 41 3- 4 4- 5 4- 5   0.6C28 59 1- 10 2- 5 2- 5 45 1- 11 2- 6 2- 7   5" 0.6C26 59 2- 1 2- 9 2- 10 45 2- 3 3- 0 3- 0   (t=4 1/2") 0.6C24 59 2- 7 3- 5 3- 6 45 2- 10 3- 8 3- 9												
(t=4") 0.6C24 53 2-8 3-6 3-7 41 2-10 3-9 3-10   0.6C22 54 3-1 4-1 4-2 41 3-4 4-5 4-5   0.6C28 59 1-10 2-5 2-5 45 1-11 2-6 2-7   5" 0.6C26 59 2-1 2-9 2-10 45 2-3 3-0 3-0   (t=4 1/2") 0.6C24 59 2-7 3-5 3-6 45 2-10 3-8 3-9												
0.6C22     54     3- 1     4- 1     4- 2     41     3- 4     4- 5     4- 5       0.6C28     59     1- 10     2- 5     2- 5     45     1- 11     2- 6     2- 7       5"     0.6C26     59     2- 1     2- 9     2- 10     45     2- 3     3- 0     3- 0       (t=4 1/2")     0.6C24     59     2- 7     3- 5     3- 6     45     2- 10     3- 8     3- 9												
0.6C28 59 1- 10 2- 5 2- 5 45 1- 11 2- 6 2- 7   5" 0.6C26 59 2- 1 2- 9 2- 10 45 2- 3 3- 0 3- 0   (t=4 1/2") 0.6C24 59 2- 7 3- 5 3- 6 45 2- 10 3- 8 3- 9	(t=4")											
5" 0.6C26 59 2-1 2-9 2-10 45 2-3 3-0 3-0 (t=4 1/2") 0.6C24 59 2-7 3-5 3-6 45 2-10 3-8 3-9												
(t=4 1/2") 0.6C24 59 2-7 3-5 3-6 45 2-10 3-8 3-9												
	_											
0.6C22   60	(t=4 1/2")											
		0.6C22	60	3- 0	3- 11	4- 0	46	3- 3	4-3	4-4		

## REINFORCED CONCRETE SLAB ALLOWABLE LOADS

					<u> </u>								
Total				Superimposed Uniform Load (psf) — 3 Span Condition									
Slab	Reinforcement		Clear Span (ftin.)										
Depth	W.W.F.	As	2-0	2- 3	2-6	2-9	3-0	3-3	3-6	3- 9	4-0	4- 6	5-0
	6X6-W1.4XW1.4	0.028*	194	153	124	103	86	74	63				
2"	6X6-W2.1XW2.1	0.042	285	225	183	151	127	108	93	l			
(t=1 1/2")	6X6-W2.9XW2.9	0.058	384	304	246	203	171	146	125				
	6X6-W1.4XW1.4	0.028*	268	212	172	142	119	102	88	76	67	53	
2 1/2"	6X6-W2.1XW2.1	0.042	396	313	254	210	176	150	129	113	99	78	
(t=2")	6X6-W2.9XW2.9	0.058	400	400	344	284	239	204	176	153	134	106	
	6X6-W1.4XW1.4	0.028*	342	271	219	181	152	130	112	97	86	68	
3"	6X6-W2.1XW2.1	0.042*	400	400	325	268	226	192	166	144	127	100	l
(t=2 1/2")	6X6-W2.9XW2.9	0.058	400	400	400	366	307	262	226	197	173	137	
	6X6-W2.1XW2.1	0.042*	400	400	396	327	275	234	202	176	155		
3 1/2"	6X6-W2.9XW2.9	0.058*	400	400	400	400	375	320	276	240	211		
(t=3")	4X4-W2.9XW2.9	0.087	400	400	400	400	400	400	400	353	310		
	6X6-W2.1XW2.1	0.042*	400	400	400	384	322	275	237	206	181		
4"	6X6-W2.9XW2.9	0.058*	400	400	400	400	400	372	321	280	246		
(t=3 1/2")	4X4-W2.9XW2.9	0.087	400	400	400	400	400	400	400	400	358		
	6X6-W2.9XW2.9	0.058*	400	400	400	400	400	400	359	313	275		
4 1/2"	4X4-W2.9XW2.9	0.087	400	400	400	400	400	400	400	400	400		
(t=4")	4X4-W4.0XW4.0	0.120	400	400	400	400	400	400	400	400	400		
	6X6-W2.9XW2.9	0.058*	400	400	400	400	400	400	396	345	303		
5"	4X4-W2.9XW2.9	0.087*	400	400	400	400	400	400	400	400	400		
(t=4 1/2")	4X4-W4.0XW4.0	0.120	400	400	400	400	400	400	400	400	400		
			0.6	C28	0.60	C26		0.6C24		0.6C2	2		

Note 1. \*Does not meet A.C.I criterion for temperature and shrinkage.

- 2. Recommended conform types are based upon S.D.I. criteria and normal weight concrete.
- 3. Superimposed loads are based upon three span conditions and A.C.I. moment coefficients.

## **SECTION PROPERTIES**

	Deck	Design	Weight	lр	In	Sp	Sn	Fy
-	Туре	Thick.	PSF	in <sup>4</sup> /ft	in <sup>4</sup> /ft	in <sup>3</sup> /ft	in <sup>3</sup> /ft	ksi
Г	0.6C28	0.0149	0.76	0.012	0.012	0.035	0.036	60
	0.6C26	0.0179	0.91	0.015	0.015	0.043	0.043	60
	0.6C24	0.0239	1.21	0.019	0.019	0.057	0.057	60
	0.6C22	0.0298	1.49	0.024	0.024	0.070	0.070	60