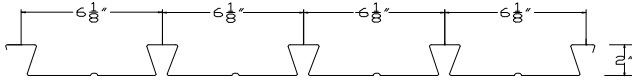


MARCORE-SR COMPOSITE DECK-22 GAUGE (WITH STIFFENER RIBS)



SECTION PROPERTIES OF STEEL DECK FY=50 KSI

THICKNESS	IN.	0.0295
WEIGHT	LB/FT ²	2.2594
MOMENT OF INERTIA (I _p)	IN ⁴	0.4016
MOMENT OF INERTIA (I _n)	IN ⁴	0.3762
SECTION MODULUS (S _p)	IN ³	0.2953
SECTION MODULUS (S _n)	IN ³	0.2899

COMPOSITE DECK PROPERTIES

CONCRETE THICKNESS	IN	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
COMPOSITE DECK THICKNESS	IN	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
CONCRETE - 145 lb. NWC*	LB/FT ²	44.3	50.3	56.3	62.2	68.5	74.5	80.4	86.4	91.4
SECTION MODULUS (S _p)	IN ³	1.6	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9
EFFECTIVE AREA (A)	IN ²	38.0	42.8	47.5	52.3	57.0	61.8	66.5	71.3	76.0
AVG/ MOMENT OF INERTIA (I _{av})	IN ⁴	6.2	8.6	11.5	14.9	19.0	23.7	29.2	35.4	42.4
TEMP. REINFORC. W.W. F. 6"X6"		w1.4xw1.4	w1.4xw1.4	w1.4xw1.4	w2xw2	w2xw2	w2.9xw2.9	w2.9xw2.9	w2.9xw2.9	w2.9xw2.9

SUPERIMPOSED LIVE LOAD ON COMPOSITE DECK, 22 GAUGE

COMPOSITE DECK THICKNESS	IN	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
MAXIMUM WORKING ALLOWABLE UNIFORM LIVE LOAD LL, LB/FT²										
SPAN										
9	FT	307	363	400	400	400	400	400	400	400
10	FT	242	287	333	381	400	400	400	400	400
11	FT	194	230	268	306	345	385	400	400	400
12	FT	157	187	218	250	282	314	347	380	400
13	FT	129	154	179	206	232	259	286	314	342
14	FT	106	127	149	171	193	215	238	262	286
15	FT		106	124	142	161	180	200	219	240
16	FT			103	119	135	151	168	185	202
17	FT				100	114	128	142	156	171
18	FT					96	108	120	132	145
19	FT						91	101	112	123
20	FT							85	94	104
21	FT								79	88

SHORING REQUIREMENTS

COMPOSITE DECK THICKNESS	IN	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
MAXIMUM UNSHORED SPAN	FT	6.25	6.0	6.0	5.75	5.5	5.25	5.25	5.0	5.0

*Normal Weight Concrete 145#

UNDERWRITERS LABORATORIES, INC. FIRE RATED FLOOR DESIGN ASSEMBLY LIVE LOAD LIMIT FOR COMPOSITE DECK SLABS IS 250 PSF.

TWO SPAN COMPOSITE DECK 22 GAUGE
2 SPAN CONDITION REINFORCING OVER INTERMEDIATE SUPPORT

SPAN	COMPOSITE SLAB THICKNESS														
	4.0"			4.5"			5.0"			5.5"			6.0"		
	25+40	25+50	5+100	25+40	25+50	5+100	25+40	25+50	5+100	25+40	25+50	5+100	25+40	25+50	5+100
13'-0"	#4@9	#4@8	#5@8	#4@9	#4@8	#5@9	#4@10	#4@9	#5@11	#4@11	#4@10	#4@7	#4@12	#4@11	#4@8
13'-6"	#4@8	#5@11	#5@7	#4@8	#4@7	#5@9	#4@9	#4@8	#5@10	#4@10	#4@9	#4@7	#4@11	#4@10	#4@7
14'-0"	#4@7	#5@10	#5@7	#4@8	#5@11	#5@8	#4@8	#4@8	#5@9	#4@9	#4@8	#5@10	#4@10	#4@9	#4@7
14'-6"	#5@10	#5@9	#6@9	#4@7	#5@10	#5@7	#4@8	#4@7	#5@8	#4@8	#4@8	#5@9	#4@9	#4@8	#5@10
15'-0"	#5@10	#5@8	#6@9	#5@10	#5@9	#6@10	#4@7	#5@10	#5@8	#4@8	#4@7	#5@9	#4@8	#4@8	#5@10
15'-6"	#5@9	#5@8	#6@8	#5@9	#5@8	#6@9	#5@11	#5@10	#5@7	#4@7	#5@11	#5@8	#4@8	#4@7	#5@9
16'-0"	#5@8	#5@7		#5@9	#5@8	#6@8	#5@10	#5@9	#6@10	#5@11	#5@10	#5@7	#4@7	#5@11	#5@8
16'-6"	#5@7	#6@9		#5@8	#5@7	#6@8	#5@9	#5@8	#6@9	#5@10	#5@9	#5@7	#4@7	#5@10	#5@8
17'-0"	#6@10	#6@9		#5@7	#6@10		#5@8	#5@8	#6@8	#5@9	#5@8	#6@9	#5@10	#5@9	#5@7
17'-6"	#6@9			#5@7	#6@9		#5@8	#5@7	#6@8	#5@9	#5@8	#6@9	#5@9	#5@9	#6@10
18'-0"				#6@10	#6@8		#5@7	#6@10		#5@8	#5@7	#6@8	#5@9	#5@8	#6@8
18'-6"				#6@9	#6@8		#5@7	#6@9		#5@8	#5@7	#6@8	#5@8	#5@7	#6@8
19'-0"				#6@8			#6@9	#6@8		#5@7	#6@10		#5@8	#5@7	
19'-6"							#6@9	#6@8		#6@10	#6@9		#5@7	#6@10	
20'-0"							#6@8	#6@7		#6@9	#6@8		#5@7	#6@9	
20'-6"							#6@8			#6@9	#6@8		#6@10	#6@9	
21'-0"										#6@8	#6@7		#6@9	#6@8	
21'-6"										#6@8			#6@9	#6@8	
22'-0"										#6@7			#6@8	#6@7	
22'-6"													#6@8		
23'-0"													#6@7		
23'-6"															
24'-0"															

SPAN	COMPOSITE SLAB THICKNESS											
	6.5"			7.0"			7.5"			8.0"		
	25+40	25+50	5+100	25+40	25+50	5+100	25+40	25+50	5+100	25+40	25+50	5+100
13'-0"	#4@12	#4@11	#4@9	#4@13	#4@12	#4@10	#4@14	#4@13	#4@10	#4@15	#4@14	#4@11
13'-6"	#4@11	#4@10	#4@8	#4@12	#4@11	#4@9	#4@13	#4@12	#4@9	#4@14	#4@13	#4@10
14'-0"	#4@10	#4@10	#4@7	#4@11	#4@10	#4@8	#4@12	#4@11	#4@9	#4@13	#4@12	#4@9
14'-6"	#4@10	#4@9	#4@7	#4@10	#4@9	#4@7	#4@11	#4@10	#4@8	#4@12	#4@11	#4@9
15'-0"	#4@9	#4@8	#5@10	#4@9	#4@9	#4@7	#4@10	#4@9	#4@7	#4@11	#4@10	#4@8
15'-6"	#4@8	#4@7	#5@10	#4@9	#4@8	#5@10	#4@9	#4@9	#4@7	#4@10	#4@9	#4@7
16'-0"	#4@8	#4@7	#5@9	#4@8	#4@7	#5@10	#4@9	#4@8	#5@10	#4@9	#4@9	#4@7
16'-6"	#4@7	#5@11	#5@8	#4@8	#4@7	#5@9	#4@8	#4@7	#5@10	#4@9	#4@8	#5@10
17'-0"	#4@7	#5@10	#5@8	#4@7	#5@11	#5@8	#4@7	#4@7	#5@9	#4@8	#4@7	#5@10
17'-6"	#5@10	#5@9	#5@7	#5@11	#5@10	#5@8	#4@7	#5@11	#5@8	#4@8	#4@7	#5@9
18'-0"	#5@10	#5@9	#5@7	#5@10	#5@9	#5@7	#5@11	#5@10	#5@8	#4@7	#5@11	#5@9
18'-6"	#5@9	#5@8	#6@9	#5@10	#5@9	#5@7	#5@10	#5@9	#5@7	#4@7	#5@10	#5@8
19'-0"	#5@8	#5@8	#6@9	#5@9	#5@8	#6@9	#5@10	#5@9	#5@7	#5@10	#5@10	#5@7
19'-6"	#5@8	#5@7	#6@8	#5@8	#5@8	#6@9	#5@9	#5@8	#6@10	#5@10	#5@9	#5@7
20'-0"	#5@7	#5@7	#6@8	#5@8	#5@7	#6@8	#5@8	#5@8	#6@9	#5@9	#5@8	#6@10
20'-6"	#5@7	#6@9	#6@7	#5@7	#5@7	#6@8	#5@8	#5@7	#6@8	#5@9	#5@8	#6@9
21'-0"	#6@10	#6@9		#5@7	#6@10		#5@7	#5@7	#6@8	#5@8	#5@7	#6@9
21'-6"	#6@9	#6@8		#6@10	#6@9		#5@7	#6@10		#5@8	#5@7	#6@8
22'-0"	#6@9	#6@8		#6@9	#6@9		#5@7	#6@9		#5@7	#5@7	#6@8
22'-6"	#6@8	#6@7		#6@9	#6@8		#6@9	#6@9		#5@7	#6@10	
23'-0"	#6@8			#6@8			#6@9	#6@8		#6@10	#6@9	
23'-6"	#6@7			#6@8			#6@9	#6@8		#6@9	#6@9	
24'-0"							#6@8			#6@9	#6@8	
24'-6"							#6@8			#6@8		
25'-0"										#6@8		

(-) allowable superimposed dead and live loads (lb/ft²)