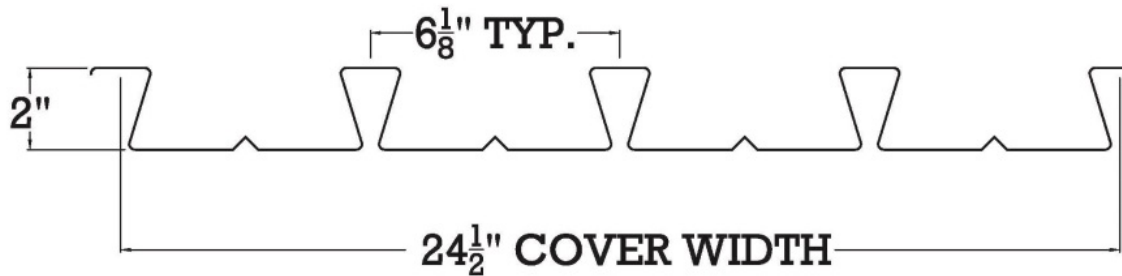


**MARCORE-SR COMPOSITE DECK-22 GAUGE**  
(WITH STIFFENER RIBS)



SECTION PROPERTIES OF STEEL DECK		Fy=50 ksi
THICKNESS	in.	0.0295
WEIGHT	psf	2.3
AREA	in <sup>2</sup>	0.68
MOMENT OF INERTIA (I <sub>p</sub> )	in <sup>4</sup> /ft	0.40
MOMENT OF INERTIA (I <sub>N</sub> )	in <sup>4</sup> /ft	0.35
SECTION MODULUS (S <sub>p</sub> )	in <sup>3</sup> /ft	0.28
SECTION MODULUS (S <sub>N</sub> )	in <sup>3</sup> /ft	0.29
MOMENT CAPACITY (M <sub>p</sub> )	lb-in/ft	8530
MOMENT CAPACITY (M <sub>N</sub> )	lb-in/ft	8797

**GENERAL INFORMATION**

	in	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0
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	psf	44.3	50.3	56.3	62.2	68.5	74.5	80.4	86.4	91.4
SECTION MODULUS (S <sub>p</sub> )	in <sup>3</sup> /ft	1.6	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9
EFFECTIVE AREA (A)	in <sup>2</sup>	38.0	42.8	47.5	52.3	57.0	61.8	66.5	71.3	76.0
AVG/ MOMENT OF INERTIA (I <sub>av</sub> )	in <sup>4</sup> /ft	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

**SHORING RECOMONDATION**

Span	Composite Slab Thickness, in.		4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
	MARCORE-SR										
Single	22 ga.	ft.	7.25	7.00	6.75	6.50	6.50	6.25	6.00	6.00	5.75
Double	22 ga.	ft.	8.25	7.75	7.50	7.25	7.00	6.75	6.50	6.50	6.25

\*Normal Weight Concrete 145 pcf

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

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

**SUPERIMPOSED LIVE LOAD ON COMPOSITE DECK SIMPLE SPAN**

**22 GAUGE**

COMPOSITE DECK THICKNESS	in.	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5
MAXIMUM WORKING ALLOWABLE UNIFORM LIVE LOAD LL, LB/FT <sup>2</sup>											
SPAN											
9	ft.	311	400	400	400	400	400	400	400	400	400
10	ft.	214	316	400	400	400	400	400	400	400	400
11	ft.	149	224	369	392	400	400	400	400	400	400
12	ft.	104	161	272	317	359	396	400	400	400	400
13	ft.	72	115	201	236	298	329	360	391	400	400
14	ft.	48	81	148	176	238	275	302	328	355	380
15	ft.	30	56	109	131	180	232	255	277	300	321
16	ft.	17	37	79	96	136	183	216	235	255	273
17	ft.		22	55	69	101	139	184	201	218	233
18	ft.		10	37	48	74	105	142	172	187	200
19	ft.			22	31	52	78	108	144	160	172
20	ft.			10	18	35	56	81	111	138	147
21	ft.					20	38	59	83	113	127
22	ft.						23	40	61	86	109
23	ft.						10	25	42	63	86
24	ft.							12	26	45	63
25	ft.								13	29	44
26	ft.									15	28
27											14

\*Normal Weight Concrete 145 pcf

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

# MARCORE-SR COMPOSITE DECK-22 GAUGE

(WITH STIFFENER RIBS)

## SUPERIMPOSED LIVE LOAD ON COMPOSITE DECK DOUBLE & TRIPLE SPAN 22 GAUGE

COMPOSITE DECK THICKNESS	in	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5
		MAXIMUM WORKING ALLOWABLE UNIFORM LIVE LOAD LL, LB/FT <sup>2</sup>							
SPAN									
16	ft.	197	209	233	258	283	307	333	356
17	ft.	160	180	201	222	243	265	287	307
18	ft.	125	149	173	192	210	229	248	265
19	ft.	97	117	150	166	182	198	215	230
20	ft.	74	91	129	144	158	173	187	201
21	ft.	56	70	101	125	138	150	163	175
22	ft.	40	52	79	109	120	131	143	153
23	ft.	27	37	60	88	105	114	124	133
24	ft.	17	25	44	68	91	99	109	116
25	ft.		15	31	51	76	86	94	101
26	ft.			20	37	58	75	82	88
27	ft.			10	25	43	64	71	76
28	ft.				14	30	48	61	65
29	ft.					18	34	52	55
30	ft.						22	40	47
31	ft.						12	27	39
32	ft.							16	30
33	ft.								18

\*Normal Weight Concrete 145 pcf

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

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

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

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

	COMPOSITE SLAB THICKNESS											
	6.5"			7.0"			7.5"			8.0"		
SPAN	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	#5@6	#5@10	#5@9	#5@7	#5@10	#5@9	#5@7	#4@7	#5@10	#5@8
19'-0"	#5@8	#5@8	#5@6	#5@9	#5@8	#5@6	#5@10	#5@9	#5@7	#5@10	#5@10	#5@7
19'-6"	#5@8	#5@7	#5@5	#5@8	#5@8	#5@6	#5@9	#5@8	#5@7	#5@10	#5@9	#5@7
20'-0"	#5@7	#5@7	#5@5	#5@8	#5@7	#5@5	#5@8	#5@8	#5@6	#5@9	#5@8	#5@7
20'-6"	#5@7	#5@6	#5@5	#5@7	#5@7	#5@5	#5@8	#5@7	#5@5	#5@9	#5@8	#5@6
21'-0"	#5@7	#5@6		#5@7	#5@7		#5@7	#5@7	#5@5	#5@8	#5@7	#5@6
21'-6"	#5@6	#5@5		#5@7	#5@6		#5@7	#5@7		#5@8	#5@7	#5@5
22'-0"	#5@6	#5@5		#5@6	#5@6		#5@7	#5@6		#5@7	#5@7	#5@5
22'-6"	#5@5	#5@5		#5@6	#5@5		#5@6	#5@6		#5@7	#5@7	
23'-0"	#5@5			#5@5			#5@6	#5@5		#5@7	#5@6	
23'-6"	#5@5			#5@5			#5@6	#5@5		#5@6	#5@6	
24'-0"							#5@5			#5@6	#5@5	
24'-6"							#5@5			#5@5		
25'-0"										#5@5		

(\* ) allowable superimposed dead and live loads (lb/ft<sup>2</sup>)