

1 1/2" COMPOSITE DECK		Sectional Properties				
	Type	Design Thickness	Weight PSF	I _p In. ⁴ /Ft.	S _p In. ³ /Ft.	S _n In. ³ /Ft.
	22	.0295	1.7	0.146	0.172	0.180
	20	.0358	2.0	0.190	0.218	0.229
	18	.0474	2.7	0.284	0.301	0.311
	16	.0600	3.4	0.374	0.388	0.394

Slab Total Thickness	Type	Maximum Unshored Clear Spans		Superimposed Live Load-PSF: No Studs														
				Span Feet														
				Single Span	Double Span	Triple Span	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"
Regular Weight Concrete @ 145 PCF	4"	22	5'-10"	7'-9"	7'-11"	400	343	292	251	217	189	166	146	129	114	101	90	
		20	6'-9"	9'-0"	9'-2"	400	400	352	303	262	229	201	178	158	140	125	111	
		18	7'-2"	9'-5"	9'-8"	400	400	360	310	269	235	206	182	161	142	128	115	
		16	8'-4"	10'-6"	10'-11"	400	400	360	310	269	235	206	182	161	142	128	115	
	4-1/2"	22	5'-6"	7'-5"	7'-6"	400	400	360	309	268	233	205	180	160	142	126	113	
		20	6'-4"	8'-7"	8'-8"	400	400	400	373	324	283	249	220	195	174	156	140	
		18	6'-9"	8'-11"	9'-3"	400	400	400	383	332	290	255	226	200	179	160	143	
		16	7'-10"	10'-0"	10'-4"	400	400	400	383	332	290	255	226	200	179	160	143	
	5"	22	5'-3"	7'-1"	7'-2"	400	400	400	370	320	279	245	216	191	170	152	136	
		20	6'-1"	8'-2"	8'-4"	400	400	400	400	388	339	298	264	235	209	187	168	
		18	6'-5"	8'-6"	8'-9"	400	400	400	400	398	348	307	271	241	215	193	173	
		16	7'-6"	9'-6"	9'-10"	400	400	400	400	398	348	307	271	241	215	193	173	
	5-1/2"	22	5'-0"	6'-9"	6'-10"	400	400	400	400	374	326	287	253	224	199	178	159	
		20	5'-10"	7'-10"	7'-11"	400	400	400	400	400	397	349	309	275	245	220	197	
		18	6'-2"	8'-2"	8'-5"	400	400	400	400	400	400	360	318	283	253	227	204	
		16	7'-2"	9'-2"	9'-5"	400	400	400	400	400	400	360	318	283	253	227	204	
	6"	22	4'-10"	6'-6"	6'-7"	400	400	400	400	400	374	329	290	258	229	205	183	
		20	5'-7"	7'-6"	7'-8"	400	400	400	400	400	400	400	355	316	282	253	227	
		18	5'-11"	7'-10"	8'-1"	400	400	400	400	400	400	400	366	326	291	261	235	
		16	6'-10"	8'-9"	9'-1"	400	400	400	400	400	400	400	366	326	291	261	235	
	Lightweight Concrete @ 115 PCF	4"	22	6'-3"	8'-5"	8'-6"	394	333	284	244	212	185	163	144	127	110	96	84
			20	7'-4"	9'-5"	9'-11"	400	397	339	293	254	223	190	161	138	120	104	91
			18	7'-9"	10'-1"	10'-5"	400	400	345	297	259	226	199	176	157	135	118	103
			16	9'-1"	11'-4"	11'-8"	400	400	345	297	259	226	199	176	157	135	118	103
4-1/2"		22	6'-0"	8'-0"	8'-1"	400	400	351	302	262	229	202	178	158	141	126	113	
		20	6'-11"	9'-3"	9'-5"	400	400	400	362	315	276	243	216	192	170	148	130	
		18	7'-4"	9'-7"	9'-11"	400	400	400	369	321	281	248	220	196	175	157	141	
		16	8'-7"	10'-9"	11'-2"	400	400	400	369	321	281	248	220	196	175	157	141	
4-3/4"		22	5'-10"	7'-10"	7'-11"	400	400	385	332	288	252	222	196	174	156	139	125	
		20	6'-9"	9'-1"	9'-2"	400	400	400	398	346	304	268	237	212	189	170	152	
		18	7'-2"	9'-5"	9'-9"	400	400	400	400	353	310	273	242	216	193	173	156	
		16	8'-4"	10'-7"	10'-11"	400	400	400	400	353	310	273	242	216	193	173	156	
5"		22	5'-8"	7'-8"	7'-9"	400	400	400	362	315	275	242	214	191	170	152	137	
		20	6'-7"	8'-10"	9'-0"	400	400	400	400	378	332	293	260	231	207	186	168	
		18	7'-0"	9'-3"	9'-6"	400	400	400	400	386	339	299	265	236	211	190	171	
		16	8'-2"	10'-4"	10'-8"	400	400	400	400	386	339	299	265	236	211	190	171	
5-3/4"		22	5'-4"	7'-2"	7'-4"	400	400	400	400	396	346	305	270	240	215	193	173	
		20	6'-2"	8'-4"	8'-6"	400	400	400	400	400	400	369	328	292	262	235	212	
		18	6'-7"	8'-8"	9'-0"	400	400	400	400	400	400	378	336	300	268	241	218	
		16	7'-8"	9'-9"	10'-1"	400	400	400	400	400	400	378	336	300	268	241	218	

All data taken from manufacturer's catalogs and is presented for estimating purposes only.

All loads are based on Load and Resistance Factor Design rationale with the exception of web crippling being based on Allowable Stress Design.

Section properties have been determined in accordance with the American Iron and Steel Institute's Specifications for the Design of Cold Formed Steel Structural Members.

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CARRON AND COMPANY