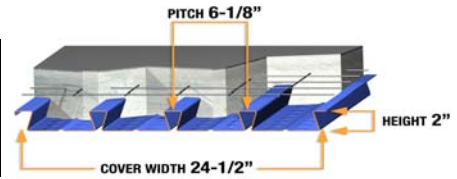


SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _b	S _p	S _n	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.23	0.407	0.288	0.281	949	1093	1214	1861	2006	2138
20	2.71	0.495	0.361	0.347	1351	1549	1716	2641	2842	3023
18	3.58	0.658	0.483	0.484	2251	2564	2827	4385	4701	4986
16	4.51	0.832	0.614	0.617	3431	3887	4271	6670	7128	7542



SIMPLE SPAN - MAXIMUM SUPERIMPOSED ASD LOADS, (psf), NO STUDS ON BEAMS																	
h (Wc)		4" (35.2)				4.25" (37.6)				4.5" (40)				4.75" (42.39)			
Span	Load Combinations	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8' - 0"	D+L (Strength)	227	287	393	400	248	314	400	400	269	341	400	400	290	368	400	400
	D+L (Deflection)	227	287	393	400	248	314	400	400	269	341	400	400	290	368	400	400
	L (Deflection)	227	287	393	400	248	314	400	400	269	341	400	400	290	368	400	400
9' - 0"	D+L (Strength)	176	226	271	376	192	247	283	398	209	269	400	400	226	290	400	400
	D+L (Deflection)	176	226	271	376	192	247	283	398	209	269	400	400	226	290	400	400
	L (Deflection)	176	226	271	376	192	247	283	398	209	269	400	400	226	290	400	400
10' - 0"	D+L (Strength)	140	183	284	270	153	200	310	282	166	217	337	293	180	234	365	302
	D+L (Deflection)	140	183	284	270	153	200	310	282	166	217	337	293	180	234	365	302
	L (Deflection)	140	183	276	270	153	200	310	282	166	217	337	293	180	234	365	302
11' - 0"	D+L (Strength)	113	150	231	306	123	164	252	342	134	178	274	380	145	193	297	400
	D+L (Deflection)	113	150	231	302	123	164	252	342	134	178	274	380	145	193	297	400
	L (Deflection)	113	150	207	228	123	164	244	268	134	178	274	312	145	193	297	362
12' - 0"	D+L (Strength)	92	125	190	249	101	136	208	279	110	148	226	311	119	161	245	345
	D+L (Deflection)	92	125	190	224	101	136	208	267	110	148	226	311	119	161	245	345
	L (Deflection)	92	125	159	176	101	136	188	206	110	148	219	241	119	161	245	278
13' - 0"	D+L (Strength)	76	103	158	205	83	112	173	230	91	122	189	257	98	133	204	285
	D+L (Deflection)	76	103	149	167	83	112	173	201	91	122	189	239	98	133	204	282
	L (Deflection)	76	103	125	138	83	112	148	162	91	122	172	189	98	133	199	219
14' - 0"	D+L (Strength)	63	85	133	170	69	93	146	191	75	102	159	214	82	110	172	238
	D+L (Deflection)	63	85	112	126	69	93	136	153	75	102	159	183	82	110	172	216
	L (Deflection)	63	85	100	111	69	93	118	130	75	102	138	152	82	110	160	175
15' - 0"	D+L (Strength)	52	71	113	141	58	78	124	159	63	85	135	179	68	93	146	199
	D+L (Deflection)	52	71	84	95	58	78	103	116	63	85	125	140	68	93	146	167
	L (Deflection)	52	71	82	90	58	78	96	106	63	85	112	123	68	93	130	143
16' - 0"	D+L (Strength)	43	60	96	118	48	66	106	134	52	72	115	150	57	78	125	168
	D+L (Deflection)	43	60	82	91	48	66	98	116	52	72	108	134	57	78	114	151
	L (Deflection)	43	60	71	78	48	66	87	98	52	72	92	102	57	78	107	117
17' - 0"	D+L (Strength)	36	50	82	99	39	55	91	113	39	61	99	127	42	66	107	142
	D+L (Deflection)	32	37	45	53	39	48	58	67	39	61	72	82	42	66	88	100
	L (Deflection)	32	37	45	53	39	48	58	67	39	61	72	82	42	66	88	98
18' - 0"	D+L (Strength)	25	42	71	83	28	47	78	95	31	51	85	107	34	56	93	121
	D+L (Deflection)	21	25	32	38	28	34	42	50	31	44	54	62	34	56	67	77
	L (Deflection)	21	25	32	38	28	34	42	50	31	44	54	62	34	56	67	77
19' - 0"	D+L (Strength)	20	35	61	69	22	39	67	80	25	39	74	91	27	42	80	102
	D+L (Deflection)	12	16	21	27	19	23	30	36	25	31	39	46	27	41	50	58
	L (Deflection)	12	16	21	27	19	23	30	36	25	31	39	46	27	41	50	58
20' - 0"	D+L (Strength)	15	26	52	58	17	29	58	67	19	32	64	76	21	35	70	87
	D+L (Deflection)	5	8	13	17	11	14	20	25	17	21	27	33	21	28	36	43
	L (Deflection)	5	8	13	17	11	14	20	25	17	21	27	33	21	28	36	43
MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS																	
1 span	6' - 9"	7' - 10"	9' - 4"	10' - 8"	6' - 8"	7' - 8"	9' - 1"	10' - 5"	6' - 6"	7' - 6"	8' - 10"	10' - 2"	6' - 4"	7' - 4"	8' - 8"	10' - 0"	
2span	8' - 9"	9' - 9"	11' - 5"	12' - 10"	8' - 7"	9' - 6"	11' - 2"	12' - 6"	8' - 5"	9' - 4"	11' - 0"	12' - 4"	8' - 3"	9' - 2"	10' - 9"	12' - 1"	
3span	9' - 1"	10' - 1"	11' - 10"	13' - 3"	8' - 11"	9' - 10"	11' - 7"	13' - 0"	8' - 9"	9' - 8"	11' - 4"	12' - 9"	8' - 7"	9' - 6"	11' - 2"	12' - 6"	
cantilever	2' - 9"	3' - 3"	4' - 2"	4' - 11"	2' - 9"	3' - 2"	4' - 1"	4' - 10"	2' - 8"	3' - 2"	4' - 0"	4' - 9"	2' - 8"	3' - 1"	4' - 0"	4' - 8"	
cy/100sf	1.13				1.21				1.29				1.37				

8' - 0"	D+L (Strength)	227	← Max. superimposed ASD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	227	← Max. superimposed ASD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	227	← Max. superimposed ASD unfactored live load (psf) (governed by deflection limitation of L/360)

Vertical load span (center to center spacing)

- Wd Weight of deck (uncoated), psf
- I_b Moment of inertia for deflection per foot of deck width, (in⁴)/ft
- S_p Section modulus for positive bending per foot of deck width, (in³)/ft
- S_n Section modulus for negative bending per foot of deck width, (in³)/ft
- f_c 4000 psi

- Rbe Allowable exterior web crippling value per foot of deck, plf
- Rbi Allowable interior web crippling value per foot of deck, plf
- h Total height of concrete slab, in
- Wc Weight of concrete (neglecting deflection), psf
- D Uniform dead load, psf
- L Uniform live load, psf

Construction spans shown based on 1.5" exterior bearing and 3" interior bearing width.

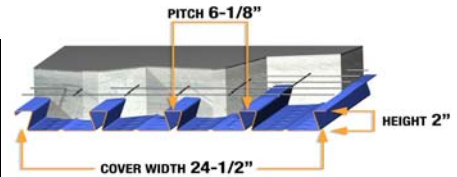
If welded wire fabric is not supplied per ACI requirements (0.00075"Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck Design Handbook, March 1997 and Design Manual, Pub. No. 30, and ASCE's Standard for the Structural Design of Composite Slabs. The loads in these tables are based on a Simple Span Design Analysis.

115 PCF CONCRETE

SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _b	S _p	S _n	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.23	0.407	0.288	0.281	949	1093	1214	1861	2006	2138
20	2.71	0.495	0.361	0.347	1351	1549	1716	2641	2842	3023
18	3.58	0.658	0.483	0.484	2251	2564	2827	4385	4701	4986
16	4.51	0.832	0.614	0.617	3431	3887	4271	6670	7128	7542



SIMPLE SPAN - MAXIMUM SUPERIMPOSED ASD LOADS, (psf), NO STUDS ON BEAMS

h (Wc)		5" (44.79)				5.25" (47.18)				5.5" (49.58)				5.75" (51.97)				
Span	Load Combinations	GAGE																
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16	
8' - 0"	D+L (Strength)	312	395	400	400	334	400	400	400	400	356	400	400	400	378	400	400	400
	D+L (Deflection)	312	395	400	400	334	400	400	400	400	356	400	400	400	378	400	400	400
	L (Deflection)	312	395	400	400	334	400	400	400	400	356	400	400	400	378	400	400	400
9' - 0"	D+L (Strength)	243	312	400	400	260	334	400	400	400	277	357	400	400	295	379	400	400
	D+L (Deflection)	243	312	400	400	260	334	400	400	400	277	357	400	400	295	379	400	400
	L (Deflection)	243	312	400	400	260	334	400	400	400	277	357	400	400	295	379	400	400
10' - 0"	D+L (Strength)	193	252	393	400	207	270	400	400	400	221	288	400	400	235	307	400	400
	D+L (Deflection)	193	252	393	400	207	270	400	400	400	221	288	400	400	235	307	400	400
	L (Deflection)	193	252	393	400	207	270	400	400	400	221	288	400	400	235	307	400	400
11' - 0"	D+L (Strength)	156	207	319	400	167	222	342	400	400	179	237	366	400	190	253	389	400
	D+L (Deflection)	156	207	319	400	167	222	342	400	400	179	237	366	400	190	253	389	400
	L (Deflection)	156	207	319	400	167	222	342	400	400	179	237	366	400	190	253	389	400
12' - 0"	D+L (Strength)	128	173	264	375	137	185	283	400	400	147	198	302	400	156	211	321	400
	D+L (Deflection)	128	173	264	375	137	185	283	400	400	147	198	302	400	156	211	321	400
	L (Deflection)	128	173	264	320	137	185	283	365	400	147	198	302	400	156	211	321	400
13' - 0"	D+L (Strength)	106	143	220	315	114	153	236	338	400	122	164	252	361	130	175	269	385
	D+L (Deflection)	106	143	220	315	114	153	236	338	400	122	164	252	361	130	175	269	385
	L (Deflection)	106	143	220	252	114	153	236	287	400	122	164	252	326	130	175	269	368
14' - 0"	D+L (Strength)	88	119	186	263	95	128	199	287	400	102	137	213	307	108	146	227	327
	D+L (Deflection)	88	119	186	253	95	128	199	287	400	102	137	213	307	108	146	227	327
	L (Deflection)	88	119	184	202	95	128	199	230	400	102	137	213	261	108	146	227	295
15' - 0"	D+L (Strength)	74	100	158	221	79	107	169	244	400	85	115	181	263	91	123	193	280
	D+L (Deflection)	74	100	158	196	79	107	169	229	400	85	115	181	263	91	123	193	280
	L (Deflection)	74	100	149	164	79	107	169	187	400	85	115	181	212	91	123	193	239
16' - 0"	D+L (Strength)	61	84	135	187	66	91	145	207	400	65	97	155	227	70	104	166	242
	D+L (Deflection)	61	84	135	153	66	91	145	179	400	65	97	155	208	70	104	166	239
	L (Deflection)	61	84	123	135	66	91	140	154	400	65	97	155	175	70	104	166	197
17' - 0"	D+L (Strength)	46	71	116	159	50	77	125	176	400	54	82	134	194	57	88	143	210
	D+L (Deflection)	46	71	105	119	50	77	125	141	400	54	82	134	164	57	88	143	190
	L (Deflection)	46	71	103	113	50	77	117	128	400	54	82	133	146	57	88	143	165
18' - 0"	D+L (Strength)	37	60	100	135	40	60	108	150	400	44	64	116	166	47	69	124	182
	D+L (Deflection)	37	60	81	93	40	60	97	111	400	44	64	115	130	47	69	124	151
	L (Deflection)	37	60	81	93	40	60	97	108	400	44	64	112	123	47	69	124	139
19' - 0"	D+L (Strength)	30	46	87	115	33	50	94	128	400	35	54	100	142	38	58	107	156
	D+L (Deflection)	30	46	62	72	33	50	75	86	400	35	54	90	102	38	58	106	120
	L (Deflection)	30	46	62	72	33	50	75	86	400	35	54	90	102	38	58	106	118
20' - 0"	D+L (Strength)	24	38	76	98	26	41	81	109	400	28	45	87	121	30	48	93	134
	D+L (Deflection)	24	37	46	54	26	41	57	67	400	28	45	69	80	30	48	83	95
	L (Deflection)	24	37	46	54	26	41	57	67	400	28	45	69	80	30	48	83	95

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

	6' - 3"	7' - 2"	8' - 6"	9' - 9"	6' - 1"	7' - 0"	8' - 4"	9' - 7"	6' - 0"	6' - 11"	8' - 2"	9' - 5"	5' - 11"	6' - 9"	8' - 0"	9' - 3"
1 span	6' - 3"	7' - 2"	8' - 6"	9' - 9"	6' - 1"	7' - 0"	8' - 4"	9' - 7"	6' - 0"	6' - 11"	8' - 2"	9' - 5"	5' - 11"	6' - 9"	8' - 0"	9' - 3"
2span	8' - 1"	9' - 0"	10' - 7"	11' - 10"	8' - 0"	8' - 10"	10' - 5"	11' - 8"	7' - 10"	8' - 8"	10' - 3"	11' - 6"	7' - 9"	8' - 7"	10' - 1"	11' - 3"
3span	8' - 5"	9' - 4"	10' - 11"	12' - 3"	8' - 3"	9' - 2"	10' - 9"	12' - 1"	8' - 1"	9' - 0"	10' - 7"	11' - 10"	8' - 0"	8' - 10"	10' - 5"	11' - 8"
cantilever	2' - 7"	3' - 1"	3' - 11"	4' - 7"	2' - 7"	3' - 0"	3' - 10"	4' - 7"	2' - 7"	3' - 0"	3' - 10"	4' - 6"	2' - 6"	2' - 11"	3' - 9"	4' - 5"
cy/100sf	1.44				1.52				1.60				1.67			

8' - 0"	D+L (Strength)	312	← Max. superimposed ASD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	312	← Max. superimposed ASD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	312	← Max. superimposed ASD unfactored live load (psf) (governed by deflection limitation of L/360)
			← Vertical load span (center to center spacing)

- Wd Weight of deck (uncoated), psf
- I_b Moment of inertia for deflection per foot of deck width, (in⁴)/ft
- S_p Section modulus for positive bending per foot of deck width, (in³)/ft
- S_n Section modulus for negative bending per foot of deck width, (in³)/ft
- f_c 4000 psi

- Rbe Allowable exterior web crippling value per foot of deck, plf
- Rbi Allowable interior web crippling value per foot of deck, plf
- h Total height of concrete slab, in
- Wc Weight of concrete (neglecting deflection), psf
- D Uniform dead load, psf
- L Uniform live load, psf

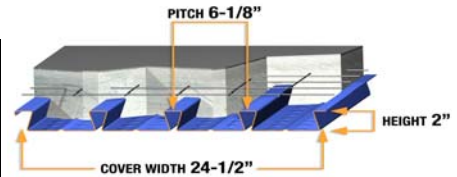
Construction spans shown based on 1.5" exterior bearing and 3" interior bearing width.

If welded wire fabric is not supplied per ACI requirements (0.00075"Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck Design Handbook, March 1997 and Design Manual, Pub. No. 30, and ASCE's Standard for the Structural Design of Composite Slabs. The loads in these tables are based on a Simple Span Design Analysis.

115 PCF CONCRETE

SECTION PROPERTIES fy=40 ksi

GAGE	Wd	I _b	S _p	S _n	Rbe			Rbi		
					2"	3"	4"	4"	5"	6"
22	2.23	0.407	0.288	0.281	949	1093	1214	1861	2006	2138
20	2.71	0.495	0.361	0.347	1351	1549	1716	2641	2842	3023
18	3.58	0.658	0.483	0.484	2251	2564	2827	4385	4701	4986
16	4.51	0.832	0.614	0.617	3431	3887	4271	6670	7128	7542



SIMPLE SPAN - MAXIMUM SUPERIMPOSED ASD LOADS, (psf), NO STUDS ON BEAMS																	
h (Wc)		6" (54.37)				6.25" (56.77)				6.5" (59.16)				6.75" (61.56)			
Span	Load Combinations	GAGE															
		22	20	18	16	22	20	18	16	22	20	18	16	22	20	18	16
8' - 0"	D+L (Strength)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	D+L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
	L (Deflection)	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
9' - 0"	D+L (Strength)	312	400	400	400	330	400	400	400	348	400	400	400	366	400	400	400
	D+L (Deflection)	312	400	400	400	330	400	400	400	348	400	400	400	366	400	400	400
	L (Deflection)	312	400	400	400	330	400	400	400	348	400	400	400	366	400	400	400
10' - 0"	D+L (Strength)	249	325	400	400	263	344	400	400	277	362	400	400	292	381	400	400
	D+L (Deflection)	249	325	400	400	263	344	400	400	277	362	400	400	292	381	400	400
	L (Deflection)	249	325	400	400	263	344	400	400	277	362	400	400	292	381	400	400
11' - 0"	D+L (Strength)	202	268	400	400	213	283	400	400	225	299	400	400	237	314	400	400
	D+L (Deflection)	202	268	400	400	213	283	400	400	225	299	400	400	237	314	400	400
	L (Deflection)	202	268	400	400	213	283	400	400	225	299	400	400	237	314	400	400
12' - 0"	D+L (Strength)	166	224	341	400	175	237	361	400	185	250	381	400	195	263	400	400
	D+L (Deflection)	166	224	341	400	175	237	361	400	185	250	381	400	195	263	400	400
	L (Deflection)	166	224	341	400	175	237	361	400	185	250	381	400	195	263	400	400
13' - 0"	D+L (Strength)	138	185	285	400	146	196	302	400	154	207	319	400	162	218	335	400
	D+L (Deflection)	138	185	285	400	146	196	302	400	154	207	319	400	162	218	335	400
	L (Deflection)	138	185	285	400	146	196	302	400	154	207	319	400	162	218	335	400
14' - 0"	D+L (Strength)	115	155	241	347	122	164	255	368	129	173	269	388	136	182	284	400
	D+L (Deflection)	115	155	241	347	122	164	255	368	129	173	269	388	136	182	284	400
	L (Deflection)	115	155	241	331	122	164	255	368	129	173	269	388	136	182	284	400
15' - 0"	D+L (Strength)	97	130	205	298	102	138	217	315	102	146	230	333	107	154	242	351
	D+L (Deflection)	97	130	205	298	102	138	217	315	102	146	230	333	107	154	242	351
	L (Deflection)	97	130	205	269	102	138	217	300	102	146	230	333	107	154	242	351
16' - 0"	D+L (Strength)	74	110	176	257	79	117	186	273	84	124	197	288	88	130	208	303
	D+L (Deflection)	74	110	176	257	79	117	186	273	84	124	197	288	88	130	208	303
	L (Deflection)	74	110	176	222	79	117	186	248	84	124	197	275	88	130	208	303
17' - 0"	D+L (Strength)	61	87	152	224	65	93	161	237	69	98	170	251	73	104	179	264
	D+L (Deflection)	61	87	152	218	65	93	161	237	69	98	170	251	73	104	179	264
	L (Deflection)	61	87	152	185	65	93	161	206	69	98	170	230	73	104	179	254
18' - 0"	D+L (Strength)	50	73	131	196	53	78	139	207	57	83	147	219	60	88	156	231
	D+L (Deflection)	50	73	131	174	53	78	139	199	57	83	147	219	60	88	156	231
	L (Deflection)	50	73	131	156	53	78	139	174	57	83	147	193	60	88	156	214
19' - 0"	D+L (Strength)	41	62	114	171	44	66	121	182	46	70	128	193	49	74	135	203
	D+L (Deflection)	41	62	114	139	44	66	121	160	46	70	128	183	49	74	135	203
	L (Deflection)	41	62	114	132	44	66	121	148	46	70	128	164	49	74	135	182
20' - 0"	D+L (Strength)	33	52	93	148	35	55	99	161	37	58	105	170	40	62	111	179
	D+L (Deflection)	33	52	93	111	35	55	99	129	37	58	105	148	40	62	111	168
	L (Deflection)	33	52	93	111	35	55	99	127	37	58	105	141	40	62	111	156

MAXIMUM UNSHORED CONSTRUCTION CLEAR SPANS

	5' - 10"	6' - 8"	7' - 11"	9' - 0"	5' - 8"	6' - 6"	7' - 9"	8' - 11"	5' - 7"	6' - 5"	7' - 7"	8' - 9"	5' - 7"	6' - 4"	7' - 6"	8' - 8"
1span	5' - 10"	6' - 8"	7' - 11"	9' - 0"	5' - 8"	6' - 6"	7' - 9"	8' - 11"	5' - 7"	6' - 5"	7' - 7"	8' - 9"	5' - 7"	6' - 4"	7' - 6"	8' - 8"
2span	7' - 7"	8' - 5"	9' - 11"	11' - 1"	7' - 6"	8' - 3"	9' - 9"	10' - 11"	7' - 4"	8' - 2"	9' - 7"	10' - 10"	7' - 3"	8' - 0"	9' - 6"	10' - 8"
3span	7' - 10"	8' - 8"	10' - 3"	11' - 6"	7' - 9"	8' - 7"	10' - 1"	11' - 4"	7' - 7"	8' - 5"	9' - 11"	11' - 2"	7' - 6"	8' - 4"	9' - 9"	11' - 0"
cantilever	2' - 6"	2' - 11"	3' - 9"	4' - 4"	2' - 6"	2' - 11"	3' - 8"	4' - 4"	2' - 5"	2' - 10"	3' - 7"	4' - 3"	2' - 5"	2' - 10"	3' - 7"	4' - 3"
cy/100sf		1.75				1.83				1.91				1.98		

8' - 0"	D+L (Strength)	400	← Max. superimposed ASD factored dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	400	← Max. superimposed ASD unfactored dead + live load (psf) (governed by deflection limitation of L/240)
	L (Deflection)	400	← Max. superimposed ASD unfactored live load (psf) (governed by deflection limitation of L/360)
			← Vertical load span (center to center spacing)

- Wd Weight of deck (uncoated), psf
- I_b Moment of inertia for deflection per foot of deck width, (in⁴)/ft
- S_p Section modulus for positive bending per foot of deck width, (in³)/ft
- S_n Section modulus for negative bending per foot of deck width, (in³)/ft
- f_c 4000 psi

- Rbe Allowable exterior web crippling value per foot of deck, plf
- Rbi Allowable interior web crippling value per foot of deck, plf
- h Total height of concrete slab, in
- Wc Weight of concrete (neglecting deflection), psf
- D Uniform dead load, psf
- L Uniform live load, psf

Construction spans shown based on 1.5" exterior bearing and 3" interior bearing width.

If welded wire fabric is not supplied per ACI requirements (0.00075"Ac), reduce loads by 10%. The section property table is based on 2001 AISI's Cold-Formed Steel Design Manual, 2004 Supplement. The live loads and unshored construction clear spans are based on the Steel Deck Institute's Composite Deck Design Handbook, March 1997 and Design Manual, Pub. No. 30, and ASCE's Standard for the Structural Design of Composite Slabs. The loads in these tables are based on a Simple Span Design Analysis.

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