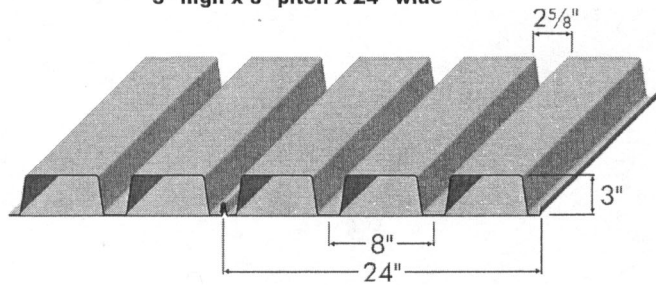


NC DECK

3" high x 8" pitch x 24" wide



SECTION PROPERTIES

$f_y = 33 \text{ ksi}$

GAGE	Wd (psf)	Ip (in ⁴)	In (in ⁴)	Sp (in ³)	Sn (in ³)
20/20	4.09	1.316	1.331	0.607	0.820
20/18	4.61	1.413	1.546	0.620	1.007
18/20	4.90	1.770	1.658	0.887	0.984
18/18	5.42	1.912	1.882	0.907	1.207
18/16	5.97	2.034	2.167	0.922	1.355
16/16	6.83	2.613	2.507	1.273	1.669
14/14	8.53	3.522	3.345	1.765	2.129

SINGLE SPAN

GAGE	20/20		20/18		18/20		18/18		18/16		16/16		14/14	
	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD
8'-0"	152	109	152	109	237	183	255	187	271	190	345	263	462	364
9'-0"	129	97	135	97	169	145	182	148	193	150	245	207	327	288
10'-0"	69	80	103	92	126	117	136	120	144	122	182	168	241	233
11'-0"	75	66	80	68	97	97	104	99	110	101	139	139	184	184
12'-0"	60	56	64	57	77	77	83	83	87	85	109	109	144	144
13'-0"	49	47	52	48	63	63	67	67	71	71	88	88	115	115
14'-0"	41	41	44	42	52	52	56	56	59	59	73	73	94	94
15'-0"	36	36	37	36	44	44	47	47	50	50	61	61	79	79

DOUBLE SPAN

GAGE	20/20		20/18		18/20		18/18		18/16		16/16		14/14	
	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD
8'-0"	194	140	194	140	314	199	328	22	8328	231	198	318	665	423
9'-0"	173	121	173	124	249	158	285	181	290	184	398	253	530	337
10'-0"	156	98	156	100	202	128	232	147	236	150	324	206	432	274
11'-0"	129	82	132	83	168	106	192	122	196	124	269	141	359	228
12'-0"	109	69	111	70	141	89	162	103	165	104	227	144	303	192
13'-0"	93	59	95	60	121	76	129	88	141	89	194	123	259	164
14'-0"	80	51	82	52	104	66	120	76	122	77	161	106	213	142
15'-0"	70	44	41	45	91	57	100	66	105	67	132	92	175	124

TRIPLE SPAN

GAGE	20/20		20/18		18/20		18/18		18/16		16/16		14/14	
	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD
8'-0"	190	137	190	137	351	246	351	253	351	253	566	376	809	517
9'-0"	169	122	169	122	308	196	312	215	312	219	453	300	608	413
10'-0"	152	109	152	109	229	159	247	175	262	178	333	245	446	337
11'-0"	132	97	138	99	174	132	188	145	199	148	253	203	337	280
12'-0"	104	82	111	84	137	111	147	123	156	125	197	171	262	237
13'-0"	84	70	90	72	110	95	118	105	125	106	157	147	208	202

MAXIMUM CONSTRUCTION SPANS (center-to-center of supports)

one span	16'-5"	17'-0"	19'-0"	19'-9"	20'-4"	23'-1"	26'-10"
multi-span	19'-4"	20'-0"	22'-5" *	23'-3" *	24'-0" *	27'-3" *	31'-7" *
cantilever	5'-6"	5'-11"	6'-2"	6'-6"	7'-0"	7'-6"	8'-4"

GAGE	20/20	← gage of top hat section/bottom panel
span	LRFD ASD	← design method
8'-0"	152 109	← maximum allowable uniform total (dead+live) load **
		← span (center-to-center of supports)

- Wd Weight of deck (uncoated)
- Ip Moment of inertia of deck for positive bending
- In Moment of inertia of deck for negative bending
- Sp Section modulus of deck for positive bending
- Sn Section modulus of deck for negative bending

- one span Maximum single or multiple span during construction
- multi-span Maximum single or multiple span during construction
- cantilever Maximum cantilever during construction
- f_y 33/24 ksi. (for determining maximum loads/spans)
- ** An assumed 10 psf dead load is added to deflection
- * Maximum length produced is 40'-0"

The section property table is based on AISI's Cold Formed Steel Design Manual, 1996 Edition.

The loads and maximum construction spans are based on the Design Manual for Composite Decks, Form Decks, Roof Decks and Cellular Deck Floor Systems with Electrical Distribution, Pub No. 29. Available as acoustical, see page 37 for additional information.