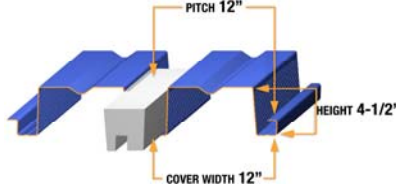


SECTION PROPERTIES

fy=40 ksi

GAGE	Wd	I _D (DEFLECTION)	Sp	Sn	Rbe			Rbi			Va
					4"	5"	6"	4"	5"	6"	
20	2.94	2.791	1.020	1.129	588	638	684	737	794	845	1873
18	3.89	3.692	1.443	1.493	990	1071	1145	1221	1310	1391	4230
16	4.91	4.655	1.859	1.882	1518	1638	1747	1853	1982	2099	6732
14	6.13	5.810	2.347	2.347	2279	2453	2610	2763	2947	3113	9688



ASD DESIGN		MAXIMUM SUPERIMPOSED UNIFORM ASD LOADS (psf)											
Span	Load Combinations	SINGLE SPAN				DOUBLE SPAN				TRIPLE SPAN			
		GAGE											
		20	18	16	14	20	18	16	14	20	18	16	14
11' - 0"	D+L (Strength)	104*	176*	241	304	59*	86*	115*	152*	67*	99*	134*	176*
	D+L (Deflection)	104	176	225	280	59	86	115	152	67	99	134	176
	L (Deflection)	89	121	153	191	59	86	115	152	67	99	134	176
12' - 0"	D+L (Strength)	95*	156	202	255	53*	77*	103*	135*	61*	89*	120*	158*
	D+L (Deflection)	95	136	172	215	53	77	103	135	61	89	120	158
	L (Deflection)	69	93	118	147	53	77	103	135	61	89	120	158
13' - 0"	D+L (Strength)	88*	133	171	216	49*	69*	93*	121*	56*	81*	108*	142*
	D+L (Deflection)	78	106	134	168	49	69	93	121	56	81	108	142
	L (Deflection)	54	73	93	116	49	69	93	121	56	81	108	142
14' - 0"	D+L (Strength)	80	114	147	186	44*	63*	84*	110*	51*	74*	98*	128*
	D+L (Deflection)	62	84	106	133	44	63	84	110	51	74	98	128
	L (Deflection)	43	59	74	93	44	63	84	110	51	74	98	128
15' - 0"	D+L (Strength)	70	99	127	161	41*	58*	76*	99*	47*	67*	90*	117*
	D+L (Deflection)	50	68	86	107	41	58	76	99	47	67	90	117
	L (Deflection)	35	48	60	75	41	58	76	99	47	67	90	117
16' - 0"	D+L (Strength)	61	86	111	141	37*	53*	70*	91*	43*	62*	82*	107*
	D+L (Deflection)	41	55	70	87	37	53	70	91	43	62	82	107
	L (Deflection)	29	39	50	62	37	53	70	91	43	62	82	107
17' - 0"	D+L (Strength)	54	76	98	124	34*	49*	64*	83*				
	D+L (Deflection)	33	45	57	72	34	49	64	83				
	L (Deflection)	24	33	41	52	34	49	64	83				
18' - 0"	D+L (Strength)	47	67	87	110	32*	45*	59*	77*				
	D+L (Deflection)	28	38	48	59	32	45	59	77				
	L (Deflection)	20	28	35	44	32	45	59	77				
19' - 0"	D+L (Strength)	42	60	77	98	30*	42*	55*	71*				
	D+L (Deflection)	23	31	40	49	30	42	55	71				
	L (Deflection)	17	23	30	37	30	42	55	71				
20' - 0"	D+L (Strength)	38	54	69	88	28*	39*	51*	65*				
	D+L (Deflection)	19	26	33	42	28	39	51	65				
	L (Deflection)	15	20	25	32	28	39	51	65				
21' - 0"	D+L (Strength)	34	48	63	79	26*	36*	47*	61*				
	D+L (Deflection)	15	21	27	33	26	36	47	61				
	L (Deflection)	13	17	22	27	26	36	47	61				
22' - 0"	D+L (Strength)	31	44	57	71	24*	34*	44*	56*				
	D+L (Deflection)	12	17	21	26	24	34	44	56				
	L (Deflection)	11	15	19	24	24	34	44	56				
23' - 0"	D+L (Strength)	28	40	51	65	23*	31*	41*	53*				
	D+L (Deflection)	10	13	17	21	23	31	41	53				
	L (Deflection)	10	13	17	21	23	31	40	50				
24' - 0"	D+L (Strength)	25	36	47	59	21*	29*	38*	49*				
	D+L (Deflection)	8	11	14	17	21	29	38	49				
	L (Deflection)	8	11	14	17	21	28	35	44				

11' - 0"	D+L (Strength)	104*	← Max. superimposed ASD dead + live load (psf) (governed by strength limitation)
	D+L (Deflection)	104	← Max. superimposed ASD dead + live load (psf) (governed by deflection limitation of L/240 or 1")
	L (Deflection)	89	← Max. superimposed ASD live load (psf) (governed by deflection limitation of L/360 or 1")

Vertical load span (center to center spacing)

- Wd Weight of deck (uncoated), psf
- I_D Moment of inertia for deflection per foot of deck width, (in⁴)/ft
- Sp Section modulus for positive bending per foot of deck width, (in³)/ft
- Sn Section modulus for negative bending per foot of deck width, (in³)/ft
- Va Allowable shear value per foot of deck width, pif
- Rbe Allowable exterior web crippling value per foot of deck width, pif
- Rbi Allowable interior web crippling value per foot of deck width, pif
- D Uniform dead load, psf
- L Uniform live load, psf

Notes: 1. Bending strength based on allowable flexural stress of 24 ksi.
 2. Loads marked with asterisk (*) are governed by moment & shear, interior (6" bearing) and exterior (4" bearing) reactions (web crippling) or applied moment & reactions.
 3. An upper limit of 400 psf has been applied to the loads.
 4. Deck length over 45'-0" require inquiry and special accommodations. Please contact the Metal-Dek Group® for further information.

The section properties table is based on 2001 AISI's North American Specification for the Design of Cold-Formed Steel Structural Members (2004 Supplement).