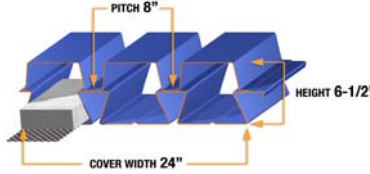


SECTION PROPERTIES  $F_y = 40$  ksi

GAGE	Wd	$I_D$ (deflection)	Sp	Sn	Rbe			Rbi		Va
					2"	3"	4"	3"	4"	
20/20	5.54	8.518	1.552	2.105	681	781	865	1313	1437	3619
18/18	7.35	11.785	2.435	3.056	1151	1311	1446	2194	2390	6345
16/16	9.28	15.238	3.478	4.171	1771	2007	2205	3355	3638	8867



ASD DESIGN		MAXIMUM SUPERIMPOSED UNIFORM LOADS, psf								
Span	Load Combinations	SINGLE SPAN			DOUBLE SPAN			TRIPLE SPAN		
		GAGE								
		20/20	18/18	16/16	20/20	18/18	16/16	20/20	18/18	16/16
13' - 0"	D+L (Strength)	99	170	263	78*	117*	162*	90*	135*	188*
	D+L (Deflection)	99	170	263	78	117	162	90	135	188
	L (Deflection)	99	170	263	78	117	162	90	135	188
14' - 0"	D+L (Strength)	92	157	244	71*	106*	147*	83*	123*	172*
	D+L (Deflection)	92	157	244	71	106	147	83	123	172
	L (Deflection)	92	157	226	71	106	147	83	123	172
15' - 0"	D+L (Strength)	85	146	227	65*	97*	135*	76*	113*	157*
	D+L (Deflection)	85	146	227	65	97	135	76	113	157
	L (Deflection)	85	140	184	65	97	135	76	113	157
16' - 0"	D+L (Strength)	80	137	208	60*	89*	124*			
	D+L (Deflection)	80	137	208	60	89	124			
	L (Deflection)	80	115	151	60	89	124			
17' - 0"	D+L (Strength)	75	127	183	55*	82*	114*			
	D+L (Deflection)	75	127	180	55	82	114			
	L (Deflection)	68	96	126	55	82	114			
18' - 0"	D+L (Strength)	70	113	162	51*	76*	105*			
	D+L (Deflection)	70	113	150	51	76	105			
	L (Deflection)	57	81	106	51	76	105			
19' - 0"	D+L (Strength)	63	101	145	48*	71*	98*			
	D+L (Deflection)	63	96	126	48	71	98			
	L (Deflection)	49	69	90	48	71	98			
20' - 0"	D+L (Strength)	57	90	130	44*	66*	91*			
	D+L (Deflection)	57	81	107	44	66	91			
	L (Deflection)	42	59	78	44	66	91			
21' - 0"	D+L (Strength)	51	81	117	41*	61*	85*			
	D+L (Deflection)	46	65	86	41	61	85			
	L (Deflection)	36	51	67	41	61	85			
22' - 0"	D+L (Strength)	46	73	106	39*	57*	79*			
	D+L (Deflection)	37	53	70	39	57	79			
	L (Deflection)	31	44	58	39	57	79			
23' - 0"	D+L (Strength)	41	66	96	36*	54*	74*			
	D+L (Deflection)	30	43	57	36	54	74			
	L (Deflection)	27	39	51	36	54	74			
24' - 0"	D+L (Strength)	38	60	87						
	D+L (Deflection)	25	35	47						
	L (Deflection)	24	34	45						
25' - 0"	D+L (Strength)	34	55	80						
	D+L (Deflection)	20	29	38						
	L (Deflection)	20	29	38						
26' - 0"	D+L (Strength)	31	50	73						
	D+L (Deflection)	16	24	31						
	L (Deflection)	16	24	31						

Contact Metal-Dek Group® for information on Versa-Wedge® Hanging Devices

13' - 0"	D+L (Strength)	99	← Max. superimposed ASD dead + live load (psf) (governed by strength limitations)
	D+L (Deflection)	99	← Max. superimposed ASD dead + live load (psf) (governed by deflection limitations)
	L (Deflection)	99	← Max. superimposed ASD live load (psf) (governed by deflection limitations)

Chord span (horizontal distance between supports)

Wd Weight of deck (uncoated), psf

$I_D$  Moment of inertia for deflection per foot of deck width, (in<sup>4</sup>)/ft

Sp Section modulus for positive bending per foot of deck width, (in<sup>3</sup>)/ft

Sn Section modulus for negative bending per foot of deck width, (in<sup>3</sup>)/ft

Va Allowable shear value per foot of deck width, plf

Rbe Allowable exterior web crippling value per foot of deck, plf

Rbi Allowable interior web crippling value per foot of deck, plf

D Uniform dead load, psf

L Uniform live load, psf

- Notes:
- Bending strength based on allowable flexural stress of 24 ksi.
  - Loads marked with asterisk (\*) are governed by moment & shear, interior reactions (web crippling) or applied moment & reactions assuming 4" of interior bearing.
  - Deflection based on maximum dead + live load deflection of L/240 or 1 in. and on maximum live load deflection of L/360 or 1 in.
  - 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). Acoustical profile is also available.