

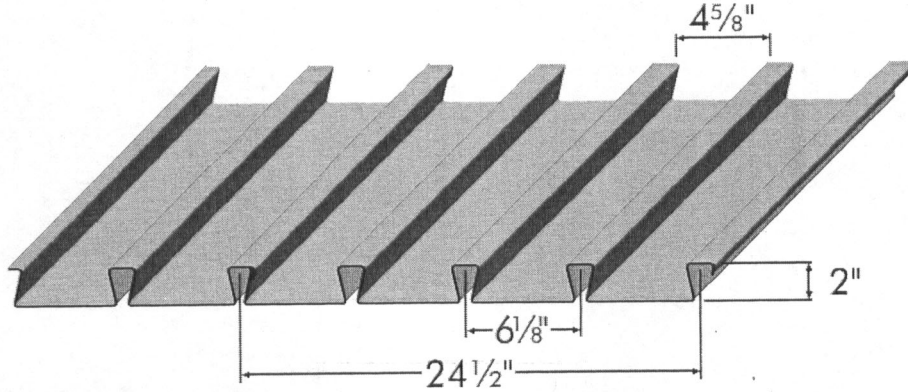
VERSA-DEK

2" high x 6-1/8" pitch x 24-1/2" wide

SECTION PROPERTIES

fy = 40 ksi

GAGE	t (in)	Wd (psf)	Ip (in^4)	In (in^4)	Sp (in^3)	Sn (in^3)	Rbe (lb/ft)		Rbi (lb/ft)		Vn (lb/ft)	
							LRFD	ASD	LRFD	ASD	LRFD	ASD
22	0.0295	2.2	0.399	0.295	0.287	0.264	693	500	2489	1795	4575	3172
20	0.0358	2.7	0.490	0.386	0.360	0.342	1178	850	3467	2500	5552	3849
18	0.0474	3.6	0.659	0.570	0.486	0.470	2323	1675	5557	4008	7351	5096
16	0.0598	4.5	0.840	0.781	0.621	0.611	3903	2814	8201	5915	9275	6429



MAXIMUM ALLOWABLE UNIFORM TOTAL LOADS, (psf) **

GAGE	SINGLE SPAN				DOUBLE SPAN				TRIPLE SPAN															
	22	20	18	16	22	20	18	16	22	20	18	16												
span	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD												
6'-0"	131	128	159	159	210	210	265	265	184	116	237	150	326	207	400	268	229	145	291	187	387	257	400	333
6'-6"	105	105	127	127	168	168	211	211	157	99	203	128	279	176	362	229	190	124	231	160	307	219	388	285
7'-0"	86	86	104	104	136	136	171	171	136	86	175	111	241	152	313	198	154	107	187	138	248	190	313	246
7'-6"	72	72	86	86	113	113	141	141	118	75	153	97	210	133	273	173	127	93	154	120	203	165	256	215
8'-0"	61	61	73	73	94	94	118	118	104	66	134	85	185	117	240	152	106	82	129	106	169	146	213	189
8'-6"	53	53	62	62	80	80	100	100	92	58	119	75	164	104	213	135	90	73	109	94	143	129	179	168
9'-0"	46	46	54	54	69	69	86	86	82	52	106	67	146	92	190	120	78	65	93	84	122	115	153	150
9'-6"	41	41	48	48	60	60	74	74	74	47	95	60	131	83	165	108	68	58	81	75	105	104	131	131
10'-0"			42	42	53	53	65	65	67	42	86	54	114	75	143	97	59	53	71	68	92	92	114	114
10'-6"			38	38	47	47	58	58	61	38	77	49	100	68	125	88	53	48	62	62	80	80	100	100
11'-0"					43	43	51	51	55	35	68	45	88	62	110	81	47	44	56	56	71	71	88	88
11'-6"					38	38	46	46			61	41	78	57	97	74			50	50	64	64	78	78
12'-0"					35	35	42	42			55	38	70	52	87	68			45	45	57	57	70	70
12'-6"							38	38					63	48	78	62					52	52	63	63
13'-0"							35	35					57	44	70	58					47	47	57	57
13'-6"							32	32					52	41	64	54					43	43	52	52
14'-0"													48	38	58	50					40	40	48	48

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

span	9'-0"	10'-0"	11'-7"	13'-1"	10'-7"	11'-9"	13'-8"	15'-5"	10'-7"	11'-9"	13'-8"	15'-5"
cantilever	2'-8"	3'-0"	3'-8"	4'-3"	2'-8"	3'-0"	3'-8"	4'-3"	2'-8"	3'-0"	3'-8"	4'-3"
FM	-	-	-	-	-	-	-	-	-	-	-	-

	LRFD	ASD	design method
6'-0"	131	128	maximum allowable uniform total (dead+live) load ** span (center-to-center of supports)

- t Design thickness of deck
- Wd Weight of deck (uncoated)
- As Average area of steel of deck per foot width
- 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
- Rbe Allowable exterior web crippling value per foot of deck (based on 2" of end bearing)
- Rbi Allowable interior web crippling value per foot of deck (based on 4" of interior bearing)
- Vn Allowable shear value per foot of deck

- span Maximum single or multiple span during construction
- cantilever Maximum cantilever during construction
- FM Maximum allowable span per Factory Mutual-Pending
- fy 40 ksi (for determining maximum loads)
- f span 32 ksi (for determining maximum spans)
- ** An assumed 10 psf dead load is added to deflection

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.