

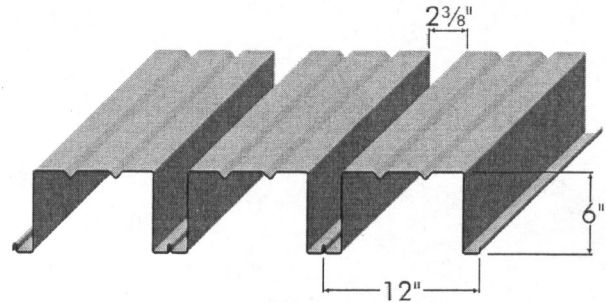
D6 ROOF DECK

6" high x 12" pitch x 12" wide

SECTION PROPERTIES

$f_y = 33 \text{ ksi}$

GAGE	Wd (psf)	I _p (in ⁴)	I _n (in ⁴)	S _p (in ³)	S _n (in ³)
20	3.22	5.021	5.045	1.375	1.403
18	4.25	6.661	6.661	1.851	1.851
16	5.37	8.403	9.403	2.337	2.337
14	6.67	10.497	10.497	2.920	2.920



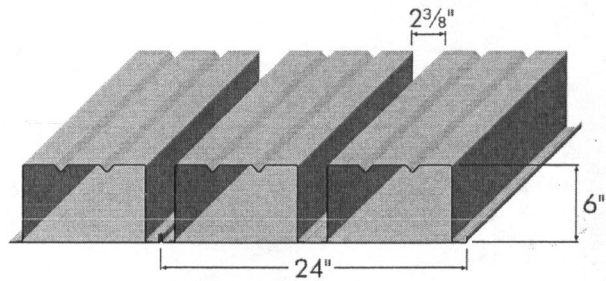
DC6 ROOF DECK

6" high x 24" pitch x 24" wide

SECTION PROPERTIES

$f_y = 33 \text{ ksi}$

GAGE	Wd (psf)	I _p (in ⁴)	I _n (in ⁴)	S _p (in ³)	S _n (in ³)
20/20	4.45	8.075	6.011	2.202	1.735
20/18	4.96	8.935	7.012	2.257	2.187
18/20	5.37	9.903	7.223	2.977	1.993
18/18	5.89	11.019	8.336	3.060	2.445
18/16	6.44	12.004	9.569	3.124	3.003
16/18	6.87	12.771	9.673	3.924	2.721
16/16	7.43	13.953	10.978	4.014	3.278
14/14	9.25	17.430	14.332	5.060	4.374



ROOF

MAXIMUM ALLOWABLE UNIFORM TOTAL LOADS, (psf) **

GAGE	D6 - SINGLE SPAN								DC6 - SINGLE SPAN															
	20		18		16		14		20/20		20/18		18/20		18/18		18/16		16/18		16/16		14/14	
	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD	LRFD	ASD
12'-0"	73	53	155	112	272	196	409	268	73	53	73	53	155	112	155	112	155	112	272	196	272	196	452	326
13'-0"	68	49	143	103	251	181	324	228	67	49	67	49	143	103	143	103	143	103	251	181	251	181	417	301
14'-0"	63	45	133	96	211	157	261	197	62	45	62	45	133	96	133	96	133	96	233	168	233	168	387	279
15'-0"	59	42	124	89	173	137	214	171	58	42	58	42	124	89	124	89	124	89	217	157	217	157	349	260
16'-0"	55	40	116	84	145	121	178	151	55	39	55	39	116	84	116	84	116	84	204	147	204	147	289	244
17'-0"	52	37	99	79	122	107	150	133	51	37	51	37	109	79	109	79	109	79	181	138	192	138	243	230
18'-0"	49	35	85	74	105	95	128	119	49	35	49	35	103	74	103	74	103	74	154	131	167	131	206	206
19'-0"	46	33	74	68	90	85	110	107	46	33	46	33	98	71	98	71	98	71	132	124	144	124	177	177
20'-0"	44	32	65	61	79	77	96	96	44	32	44	32	91	67	93	67	93	67	115	115	125	118	153	153
21'-0"	42	30	57	55	70	70	84	84	42	30	42	30	80	64	88	64	88	64	101	101	109	109	134	134
22'-0"	40	29	51	50	62	62	75	75	40	29	40	29	71	61	78	61	84	61	89	89	96	96	117	117
23'-0"	37	28	46	46	55	55	67	67	38	27	38	27	63	58	69	58	75	58	79	79	85	85	104	104
24'-0"	34	26	42	42	50	50	60	60	36	26	36	26	57	56	62	56	67	56	71	71	76	76	93	93
25'-0"	31	25	38	38	45	45	54	54	35	25	35	25	52	52	56	54	60	54	64	64	69	68	83	83
26'-0"	29	24	35	35	41	41	49	49	34	24	34	24	47	47	51	51	55	52	58	58	62	62	75	75
27'-0"	27	24	32	32	38	38	45	45	32	23	32	23	43	43	47	47	50	50	53	53	57	57	68	68
28'-0"	25	23	30	30	35	35	41	41	31	23	31	23	40	40	43	43	46	46	48	48	52	52	62	62

WEB CRIPPLING & SHEAR VALUES - D6 & DC6

GAGE	t (in)	R _{be} (lb/ft)		R _{bi} (lb/ft)		V _n (lb/ft)	
		LRFD	ASD	LRFD	ASD	LRFD	ASD
20	0.0295	441	318	1364	984	2065	1344
18	0.0358	929	670	2286	1649	4753	3093
16	0.0474	1631	1176	3477	2508	9393	6210
14	0.0598	2710	1954	5312	3831	14657	9669

W_d Weight of deck (uncoated)

I_p Moment of inertia of deck for positive bending

I_n Moment of inertia of deck for negative bending

** An assumed 10 psf dead load is added to deflection

S_p Section modulus of deck for positive bending

S_n Section modulus of deck for negative bending

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.