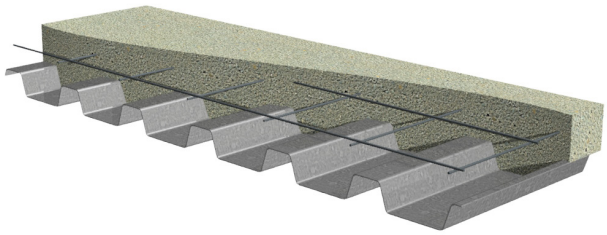
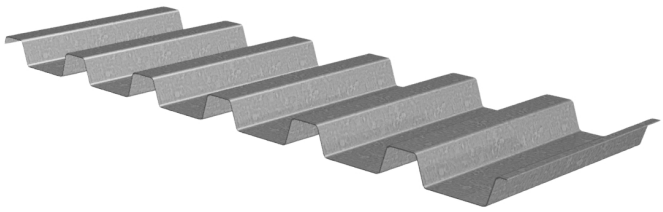
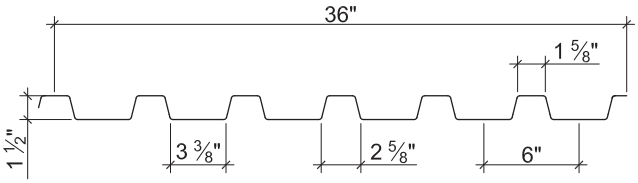
1.5C-36 NON-COMPOSITE DECK
GRADE 50 STEEL

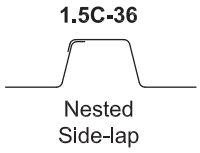
ASD





Nominal Dimensions





Section Properties

Deck Gage	Deck Weight w_{dd} (psf)	Base Metal Thickness t (in.)	Yield Strength F_y (ksi)	Effective Moment of Inertia at Service Load $I_d = (2I_e+I_g)/3$ I_d+ (in⁴/ft)	I_d- (in⁴/ft)	Effective Section Modulus at F_y = 50 ksi S_e+ (in³/ft)	S_e- (in³/ft)	Allowable Moment M_n+/Ω (lb-ft/ft)	M_n-/Ω (lb-ft/ft)	Vertical Web Shear V_n/Ω (lb/ft)
24	1.3	0.0239	60	0.138	0.118	0.131	0.120	392	359	1551
22	1.6	0.0295	50	0.178	0.155	0.179	0.169	447	422	2654
20	2.0	0.0358	50	0.217	0.197	0.229	0.224	571	559	3207
18	2.6	0.0474	50	0.290	0.277	0.318	0.306	793	763	4209

Allowable Reactions at Supports Based on Web Crippling, R_n/Ω (lb/ft)

Deck Gage	Bearing Length of Webs: One-Flange Loading, End Bearing 1½"	2"	3"	4"	Interior Bearing 3"	4"	Two-Flange Loading, End Bearing 1½"	2"	3"	4"	Interior Bearing 3"	4"
24	657	724	837	918	1197	1300	639	691	778	840	1460	1594
22	807	887	1021	1115	1482	1602	842	908	1017	1093	1834	1994
20	1153	1263	1448	1574	2127	2289	1274	1368	1525	1632	2662	2881
18	1931	2105	2398	2588	3586	3831	2297	2454	2716	2887	4546	4884

Standard Features

- ASTM A653 SS GR50 Min. with G60
  -SS GR80 (F_y=60) for 24 gage
- Standard lengths – 6'-0" to 42'-0"
- IAPMO UES ER-0652 and UL Listed
- Tables conform to ANSI/SDI NC-2017

Optional Features

- Inquire regarding cost and lead times for:
  -Short cuts < 6'-0"
  -Sheet Lengths > 42'-0"
  -Alternative metallic and painted finishes

Inward Uniform Allowable Loads, ASD (psf)

Deck Gage	Spans	Criteria	Span (ft-in.) 4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	9'-0"	10'-0"
24	Single	W_n / Ω	196	155	126	104	87	74	64	56	49	39	31
		L/240	141	99	72	54	42	33	26	21	18	12	9
	Double	W_n / Ω	173	137	112	93	78	67	58	50	44	35	29
		L/240	---	---	---	---	---	---	54	44	36	26	19
	Triple	W_n / Ω	212	170	138	115	97	83	72	63	55	44	36
		L/240	---	160	117	88	68	53	43	35	29	20	15
22	Single	W_n / Ω	223	176	143	118	99	85	73	64	56	44	36
		L/240	182	128	93	70	54	42	34	28	23	16	12
	Double	W_n / Ω	207	164	133	110	93	79	68	60	52	41	34
		L/240	---	---	---	---	---	---	---	58	48	34	24
	Triple	W_n / Ω	256	204	166	137	116	99	85	74	65	52	42
		L/240	---	---	153	115	89	70	56	45	37	26	19
20	Single	W_n / Ω	286	226	183	151	127	108	93	81	71	56	46
		L/240	222	156	114	86	66	52	41	34	28	20	14
	Double	W_n / Ω	273	217	176	146	123	105	91	79	69	55	45
		L/240	---	---	---	---	---	---	---	74	61	43	31
	Triple	W_n / Ω	338	269	219	181	153	131	113	98	87	69	56
		L/240	---	268	195	147	113	89	71	58	48	33	24
18	Single	W_n / Ω	397	313	254	210	176	150	130	113	99	78	63
		L/240	297	209	152	114	88	69	55	45	37	26	19
	Double	W_n / Ω	372	296	240	199	168	143	124	108	95	75	61
		L/240	---	---	---	---	---	---	---	104	85	60	44
	Triple	W_n / Ω	460	366	298	248	209	178	154	134	118	94	76
		L/240	---	---	274	206	159	125	100	81	67	47	34

Notes:

1. Table does not account for web crippling. Required bearing should be determined based on specific span conditions.
2. The symbol "---" indicates that the uniform allowable load based on deflection exceeds the allowable load based on stress.