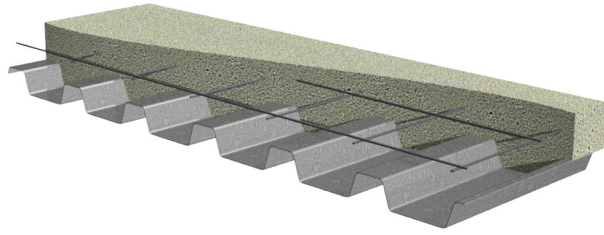
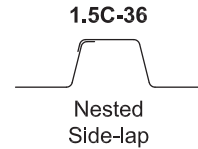
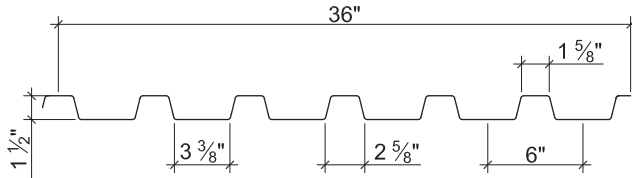


1.5C-36 NON-COMPOSITE DECK GRADE 50 STEEL

LRFD



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 $I_d = (2I_e + I_g)/3$		Effective Section Modulus at $F_y = 50$ ksi		Design Moment		Vertical Web Shear ϕV_n (lb/ft)
				I_{d+} (in ⁴ /ft)	I_{d-} (in ⁴ /ft)	S_{e+} (in ³ /ft)	S_{e-} (in ³ /ft)	ϕM_{n+} (lb-ft/ft)	ϕM_{n-} (lb-ft/ft)	
24	1.3	0.0239	60	0.138	0.118	0.131	0.120	590	540	2357
22	1.6	0.0295	50	0.178	0.155	0.179	0.169	671	634	4035
20	2.0	0.0358	50	0.217	0.197	0.229	0.224	859	840	4874
18	2.6	0.0474	50	0.290	0.277	0.318	0.306	1193	1148	6398

Design Reactions at Supports Based on Web Crippling, ϕR_n (lb/ft)

Deck Gage	Bearing Length of Webs											
	One-Flange Loading						Two-Flange Loading					
	End Bearing				Interior Bearing		End Bearing				Interior Bearing	
	1 1/2"	2"	3"	4"	3"	4"	1 1/2"	2"	3"	4"	3"	4"
24	1005	1108	1281	1405	1781	1933	977	1057	1190	1285	2171	2371
22	1235	1357	1563	1706	2204	2383	1289	1389	1556	1672	2728	2966
20	1763	1932	2215	2408	3164	3406	1949	2093	2333	2497	3960	4286
18	2954	3221	3669	3959	5334	5699	3515	3754	4156	4417	6762	7265

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

1.5C-36 NON-COMPOSITE DECK GRADE 50 STEEL

LRFD

Inward Uniform Design Loads, LRFD (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	ϕW_n	295	233	189	156	131	112	96	84	74	58	47
		L/240	141	99	72	54	42	33	26	21	18	12	9
	Double	ϕW_n	260	207	168	140	118	101	87	76	67	53	43
		L/240	291	204	149	112	86	68	54	44	36	26	19
	Triple	ϕW_n	319	255	208	173	146	125	108	94	83	66	53
		L/240	228	160	117	88	68	53	43	35	29	20	15
22	Single	ϕW_n	336	265	215	178	149	127	110	95	84	66	54
		L/240	182	128	93	70	54	42	34	28	23	16	12
	Double	ϕW_n	311	247	200	166	140	119	103	90	79	62	51
		L/240	382	269	196	147	113	89	71	58	48	34	24
	Triple	ϕW_n	385	306	249	206	174	148	128	112	98	78	63
		L/240	300	211	153	115	89	70	56	45	37	26	19
20	Single	ϕW_n	429	339	275	227	191	163	140	122	107	85	69
		L/240	222	156	114	86	66	52	41	34	28	20	14
	Double	ϕW_n	410	326	265	219	185	158	136	119	104	83	67
		L/240	486	341	249	187	144	113	91	74	61	43	31
	Triple	ϕW_n	508	404	329	273	230	196	170	148	130	103	84
		L/240	381	268	195	147	113	89	71	58	48	33	24
18	Single	ϕW_n	596	471	382	315	265	226	195	170	149	118	95
		L/240	297	209	152	114	88	69	55	45	37	26	19
	Double	ϕW_n	560	445	361	300	252	215	186	162	143	113	91
		L/240	683	480	350	263	203	159	128	104	85	60	44
	Triple	ϕW_n	693	551	449	372	314	268	231	202	178	141	114
		L/240	536	376	274	206	159	125	100	81	67	47	34

Note:

1. Table does not account for web crippling. Required bearing should be determined based on specific span conditions.

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