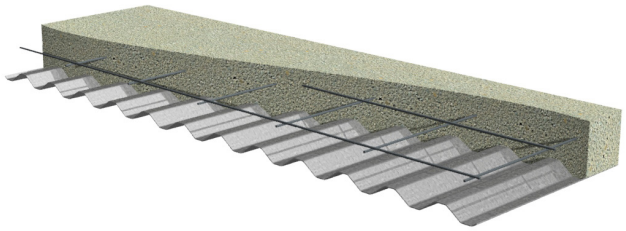
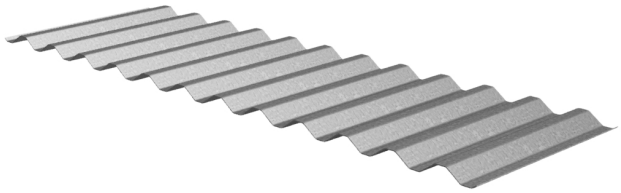
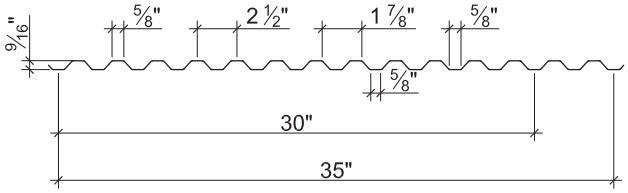
0.6C-30/0.6C-35 NON-COMPOSITE & ROOF DECKS
GRADE 80 STEEL

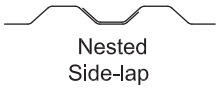
LRFD





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 $I_d = (2I_e+I_g)/3$ I_d+ (in⁴/ft)	I_d- (in⁴/ft)	Effective Section Modulus at F_y = 60 ksi S_e+ (in³/ft)	S_e- (in³/ft)	Design Moment øM$_n$+ (lb-ft/ft)	øM$_n$- (lb-ft/ft)	Vertical Web Shear øV$_n$ (lb/ft)
28	0.7	0.0149	60	0.011	0.011	0.033	0.034	149	153	2016
26	0.9	0.0179	60	0.013	0.013	0.042	0.042	189	189	2415
24	1.2	0.0239	60	0.017	0.017	0.056	0.056	252	252	3202
22	1.4	0.0295	60	0.021	0.021	0.069	0.068	311	306	3927

Design Reactions at Supports Based on Web Crippling, øR$_n$ (lb/ft)

Deck Gage	Bearing Length of Webs, One-Flange Loading: End Bearing 1½"	End Bearing 2"	Interior Bearing 1½"	Interior Bearing 2"
28	751	807	844	899
26	1055	1130	1241	1317
24	1799	1913	2241	2364
22	2646	2800	3413	3583

Standard Features

- ASTM A653 SS GR80 with G60
- Standard lengths – 6'-0" to 42'-0"
- IAPMO UES ER-0652 and UL Listed
- Tables conform to ANSI/SDI NC-2017 and RD-2017

Optional Features

- Inquire regarding cost and lead times for:
  - -Short cuts < 6'-0"
  - -Sheet Lengths > 42'-0"
  - -Alternative metallic and painted finishes
- Side-lap or bottom flange slot venting

Inward Uniform Design Loads, LRFD (psf)

Deck Gage	Spans	Criteria	Span (ft-in.) 1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"
28	Single	ϕW_n	1188	528	297	190	132	97	74	59	48	39	33
		L/240	721	214	90	46	27	17	11	8	6	4	3
	Double	ϕW_n	1144	527	301	194	135	99	76	60	49	40	34
		L/240	1737	515	217	111	64	41	27	19	14	10	8
	Triple	ϕW_n	1392	651	373	241	168	124	95	75	61	50	42
		L/240	1361	403	170	87	50	32	21	15	11	8	6
26	Single	ϕW_n	1512	672	378	242	168	123	95	75	60	50	42
		L/240	852	253	107	55	32	20	13	9	7	5	4
	Double	ϕW_n	1408	650	371	239	167	123	94	74	60	50	42
		L/240	2053	608	257	131	76	48	32	23	16	12	10
	Triple	ϕW_n	1711	802	460	297	207	153	117	93	75	62	52
		L/240	1609	477	201	103	60	38	25	18	13	10	7
24	Single	ϕW_n	2016	896	504	323	224	165	126	100	81	67	56
		L/240	1114	330	139	71	41	26	17	12	9	7	5
	Double	ϕW_n	1876	867	495	319	222	164	125	99	80	66	56
		L/240	2685	795	336	172	99	63	42	29	21	16	12
	Triple	ϕW_n	2279	1068	613	396	277	204	156	124	100	83	70
		L/240	2104	623	263	135	78	49	33	23	17	13	10
22	Single	ϕW_n	2484	1104	621	397	276	203	155	123	99	82	69
		L/240	1377	408	172	88	51	32	22	15	11	8	6
	Double	ϕW_n	2281	1053	601	387	270	199	152	120	98	81	68
		L/240	3316	983	415	212	123	77	52	36	27	20	15
	Triple	ϕW_n	2772	1298	745	481	336	248	190	150	122	101	85
		L/240	2599	770	325	166	96	61	41	29	21	16	12

Note:

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