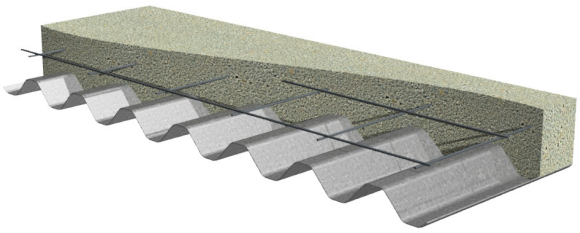
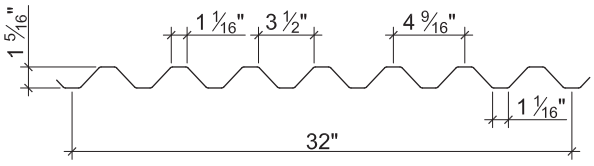
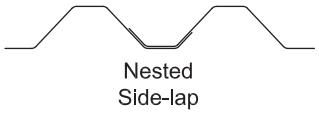
1.3C-32 NON-COMPOSITE DECK & ROOF DECK
GRADE 80 STEEL

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)
26	0.9	0.0179	60	0.067	0.067	0.080	0.089	360	401	2161
24	1.3	0.0239	60	0.093	0.092	0.126	0.130	567	585	3857
22	1.6	0.0295	60	0.116	0.116	0.163	0.163	734	734	5292
20	1.9	0.0358	60	0.139	0.139	0.197	0.197	887	887	6401

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

Bearing Length of Webs

One-Flange Loading

Deck Gage	End Bearing 1½"	End Bearing 2"	End Bearing 3"	Interior Bearing 1½"	Interior Bearing 2"	Interior Bearing 3"
26	539	597	695	585	640	732
24	939	1036	1197	1109	1207	1373
22	1400	1539	1772	1735	1882	2129
20	2017	2210	2533	2594	2804	3157

Standard Features

- ASTM A653 SS GR80 with G60
- Standard lengths – 6'-0" to 42'-0"
- IAPMO UES ER-652 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.) 4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	9'-0"	10'-0"
26	Single	ϕW_n	180	142	115	95	80	68	59	51	45	36	29
		L/240	69	48	35	26	20	16	13	10	9	6	4
	Double	ϕW_n	195	155	126	104	88	75	65	57	50	39	32
		L/240	165	116	85	64	49	39	31	25	21	15	11
	Triple	ϕW_n	241	192	156	130	109	93	81	70	62	49	40
		L/240	130	91	66	50	38	30	24	20	16	11	8
24	Single	ϕW_n	284	224	181	150	126	107	93	81	71	56	45
		L/240	95	67	49	37	28	22	18	14	12	8	6
	Double	ϕW_n	287	228	185	153	129	110	95	83	73	58	47
		L/240	227	159	116	87	67	53	42	34	28	20	15
	Triple	ϕW_n	357	283	230	191	161	137	118	103	91	72	58
		L/240	178	125	91	68	53	41	33	27	22	16	11
22	Single	ϕW_n	367	290	235	194	163	139	120	104	92	72	59
		L/240	119	83	61	46	35	28	22	18	15	10	8
	Double	ϕW_n	361	286	232	192	162	138	119	104	91	72	59
		L/240	286	201	147	110	85	67	53	43	36	25	18
	Triple	ϕW_n	449	356	289	240	202	172	149	130	114	90	73
		L/240	224	158	115	86	66	52	42	34	28	20	14
20	Single	ϕW_n	443	350	284	234	197	168	145	126	111	88	71
		L/240	142	100	73	55	42	33	27	22	18	12	9
	Double	ϕW_n	437	346	281	233	196	167	144	126	110	87	71
		L/240	343	241	176	132	102	80	64	52	43	30	22
	Triple	ϕW_n	542	430	350	290	244	208	180	157	138	109	88
		L/240	269	189	138	103	80	63	50	41	34	24	17

Note:

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