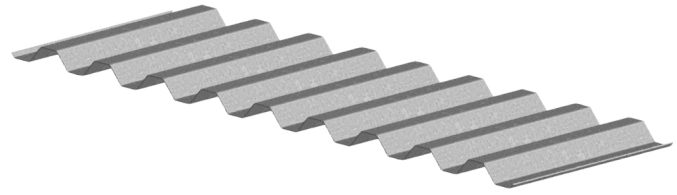
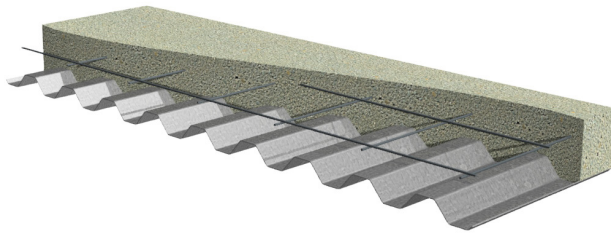
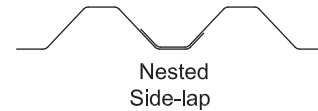
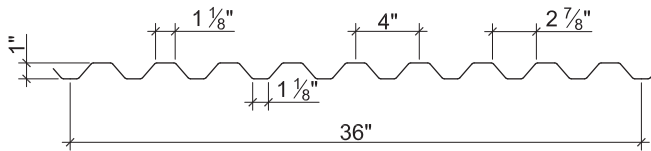


1.0C-36 NON-COMPOSITE & ROOF DECK GRADE 80 STEEL

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 $I_d = (2I_e + I_g)/3$		Effective Section Modulus at $F_y = 60$ 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)	
26	0.9	0.0179	60	0.039	0.039	0.065	0.068	293	306	2518
24	1.2	0.0239	60	0.057	0.057	0.099	0.103	446	464	4186
22	1.5	0.0295	60	0.070	0.070	0.129	0.131	581	590	5152
20	1.8	0.0358	60	0.083	0.083	0.160	0.160	720	720	6232

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

Deck Gage	Bearing Length of Webs One-Flange Loading					
	End Bearing			Interior Bearing		
	1 1/2"	2"	3"	1 1/2"	2"	3"
26	710	786	915	979	1072	1226
24	1212	1336	1545	1717	1869	2125
22	1785	1962	2259	2573	2791	3157
20	2547	2790	3199	3725	4027	4533

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

1.0C-36 NON-COMPOSITE & ROOF DECK GRADE 80 STEEL

LRFD

Inward Uniform Design Loads, LRFD (psf)

Deck Gage	Spans	Criteria	Span (ft-in.)										
			2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
26	Single	ϕW_n	585	374	260	191	146	116	94	77	65	55	48
		L/240	320	164	95	60	40	28	20	15	12	9	7
	Double	ϕW_n	586	381	267	197	151	120	97	80	68	58	50
		L/240	770	394	228	144	96	68	49	37	29	22	18
	Triple	ϕW_n	719	470	330	245	188	149	121	100	84	72	62
		L/240	603	309	179	113	75	53	39	29	22	18	14
24	Single	ϕW_n	891	570	396	291	223	176	143	118	99	84	73
		L/240	467	239	138	87	58	41	30	22	17	14	11
	Double	ϕW_n	893	579	405	299	230	182	147	122	103	87	75
		L/240	1125	576	333	210	141	99	72	54	42	33	26
	Triple	ϕW_n	1100	717	503	372	286	226	184	152	128	109	94
		L/240	882	452	261	165	110	77	56	42	33	26	21
22	Single	ϕW_n	1161	743	516	379	290	229	186	154	129	110	95
		L/240	574	294	170	107	72	50	37	28	21	17	13
	Double	ϕW_n	1134	736	515	380	292	231	187	155	130	111	96
		L/240	1382	707	409	258	173	121	88	66	51	40	32
	Triple	ϕW_n	1394	910	638	472	363	288	234	193	163	139	120
		L/240	1083	554	321	202	135	95	69	52	40	32	25
20	Single	ϕW_n	1440	922	640	470	360	284	230	190	160	136	118
		L/240	680	348	202	127	85	60	44	33	25	20	16
	Double	ϕW_n	1383	898	628	464	356	282	229	189	159	136	117
		L/240	1638	839	485	306	205	144	105	79	61	48	38
	Triple	ϕW_n	1701	1110	779	577	443	351	285	236	199	169	146
		L/240	1284	657	380	240	161	113	82	62	48	37	30

Note:

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

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