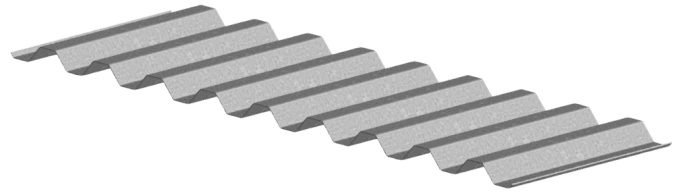
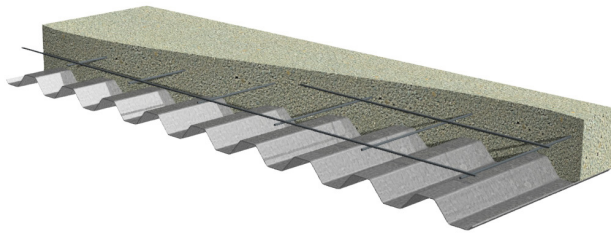
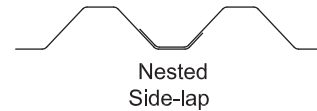
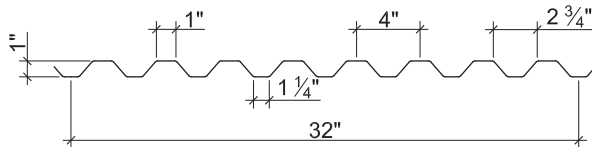


# 1.0C-32 NON-COMPOSITE & ROOF DECK GRADE 80 STEEL

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 $\phi V_n$ (lb/ft)
				$I_{d+}$ (in <sup>4</sup> /ft)	$I_{d-}$ (in <sup>4</sup> /ft)	$S_{e+}$ (in <sup>3</sup> /ft)	$S_{e-}$ (in <sup>3</sup> /ft)	$\phi M_{n+}$ (lb-ft/ft)	$\phi M_{n-}$ (lb-ft/ft)	
26	0.9	0.0179	60	0.041	0.043	0.067	0.071	302	320	2542
24	1.2	0.0239	60	0.057	0.058	0.098	0.103	441	464	4441
22	1.5	0.0295	60	0.071	0.071	0.130	0.134	585	603	5468
20	1.9	0.0358	60	0.090	0.090	0.168	0.166	756	747	6617

## Design Reactions at Supports Based on Web Crippling, $\phi R_n$ (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	733	812	944	1077	1178	1348
24	1247	1375	1590	1859	2024	2301
22	1833	2015	2320	2761	2995	3388
20	2611	2861	3280	3969	4291	4830

## 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

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## 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	$\phi W_n$	603	386	268	197	151	119	96	80	67	57	49
		L/240	336	172	100	63	42	29	22	16	12	10	8
	Double	$\phi W_n$	610	397	278	205	158	125	101	84	71	60	52
		L/240	849	435	251	158	106	75	54	41	31	25	20
	Triple	$\phi W_n$	747	489	344	255	196	156	126	105	88	75	65
		L/240	665	341	197	124	83	58	43	32	25	19	16
24	Single	$\phi W_n$	882	564	392	288	221	174	141	117	98	84	72
		L/240	467	239	138	87	58	41	30	22	17	14	11
	Double	$\phi W_n$	897	581	406	299	230	182	148	122	103	87	75
		L/240	1145	586	339	214	143	101	73	55	42	33	27
	Triple	$\phi W_n$	1106	719	504	372	286	227	184	152	128	109	94
		L/240	897	459	266	167	112	79	57	43	33	26	21
22	Single	$\phi W_n$	1170	749	520	382	293	231	187	155	130	111	96
		L/240	582	298	172	109	73	51	37	28	22	17	14
	Double	$\phi W_n$	1163	754	527	389	299	236	192	159	133	114	98
		L/240	1401	718	415	262	175	123	90	67	52	41	33
	Triple	$\phi W_n$	1431	933	654	484	372	295	239	198	166	142	123
		L/240	1098	562	325	205	137	96	70	53	41	32	26
20	Single	$\phi W_n$	1512	968	672	494	378	299	242	200	168	143	123
		L/240	738	378	219	138	92	65	47	35	27	21	17
	Double	$\phi W_n$	1438	933	653	482	370	293	238	197	165	141	122
		L/240	1777	910	526	331	222	156	114	85	66	52	41
	Triple	$\phi W_n$	1769	1154	810	599	460	365	296	245	206	176	152
		L/240	1392	713	413	260	174	122	89	67	52	41	32

### Note:

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

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