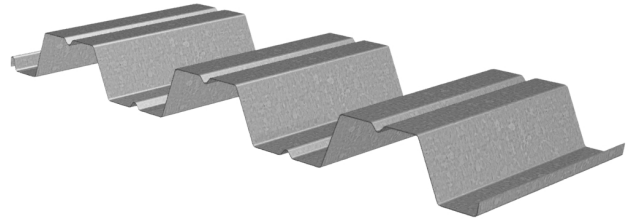
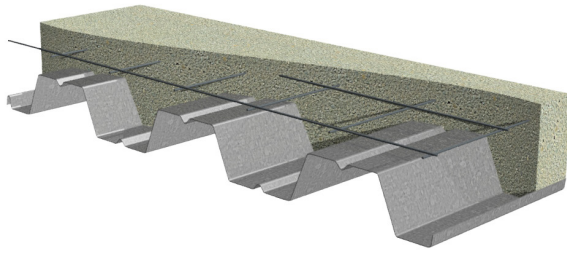
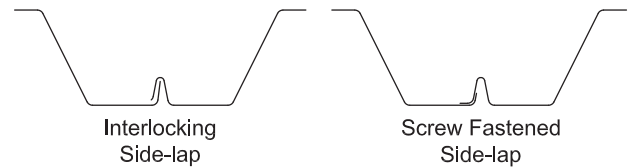
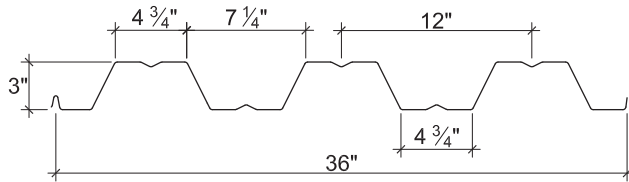


3C-36 NON-COMPOSITE DECK GRADE 50 STEEL

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)	
22	1.7	0.0295	50	0.732	0.737	0.387	0.410	1452	1537	2138
20	2.1	0.0358	50	0.919	0.921	0.512	0.539	1920	2021	3777
18	2.7	0.0474	50	1.253	1.253	0.761	0.794	2854	2977	6628
16	3.5	0.0598	50	1.580	1.580	1.013	1.013	3799	3799	9312

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"	4"	8"	1 1/2"	2"	3"	4"	4"	8"
22	540	593	683	759	1164	1354	510	549	615	671	1353	1588
20	780	855	980	1085	1668	2065	792	851	948	1031	1975	2481
18	1324	1444	1645	1814	2798	3504	1473	1573	1742	1883	3389	4314
16	2049	2226	2521	2771	4291	5324	2430	2585	2845	3065	5275	6656

Standard Features

- ASTM A653 SS GR50 Min. with G60
- Standard lengths – 6'-0" to 42'-0"
- IAPMO UES ER-652 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
- Factory Hanger Tabs

3C-36 NON-COMPOSITE DECK GRADE 50 STEEL

LRFD

Inward Uniform Design Loads, LRFD (psf)

Deck Gage	Spans	Criteria	Span (ft-in.)										
			6'-0"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	11'-0"	12'-0"	13'-0"
22	Single	ϕW_n	323	237	206	181	161	143	129	116	96	81	69
		L/240	222	140	114	94	78	66	56	48	36	28	22
	Double	ϕW_n	293	223	197	175	157	141	127	116	97	82	70
		L/240	539	339	276	227	190	160	136	116	87	67	53
	Triple	ϕW_n	347	267	237	211	190	171	155	141	118	100	86
		L/240	422	266	216	178	149	125	106	91	69	53	42
20	Single	ϕW_n	427	313	273	240	213	190	170	154	127	107	91
		L/240	279	176	143	118	98	83	70	60	45	35	27
	Double	ϕW_n	410	308	271	240	213	191	172	156	130	110	94
		L/240	673	424	345	284	237	200	170	145	109	84	66
	Triple	ϕW_n	495	375	330	293	262	235	212	192	160	136	116
		L/240	528	332	270	223	186	156	133	114	86	66	52
18	Single	ϕW_n	634	466	406	357	316	282	253	228	189	159	135
		L/240	380	239	195	160	134	113	96	82	62	48	37
	Double	ϕW_n	620	463	406	358	319	285	257	232	193	163	139
		L/240	916	577	469	386	322	271	231	198	149	115	90
	Triple	ϕW_n	754	567	498	441	393	352	317	287	239	202	172
		L/240	718	452	368	303	253	213	181	155	117	90	71
16	Single	ϕW_n	844	620	540	475	421	375	337	304	251	211	180
		L/240	480	302	246	202	169	142	121	104	78	60	47
	Double	ϕW_n	799	595	521	460	409	366	329	298	247	208	178
		L/240	1155	727	591	487	406	342	291	250	187	144	114
	Triple	ϕW_n	977	732	642	568	505	453	408	369	306	258	221
		L/240	905	570	464	382	318	268	228	196	147	113	89

Note:

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

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