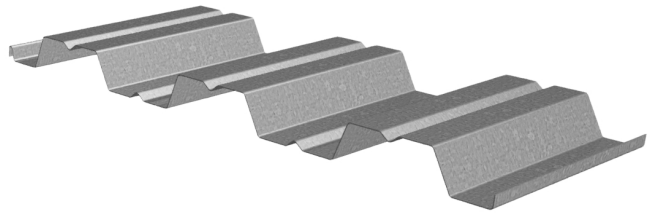
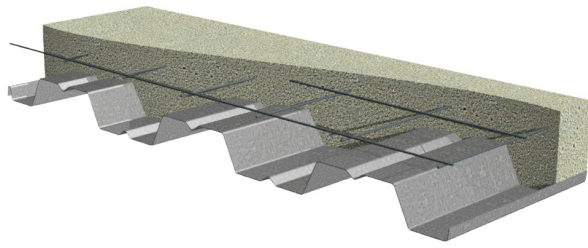
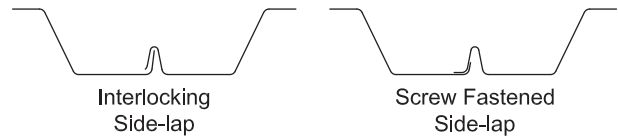
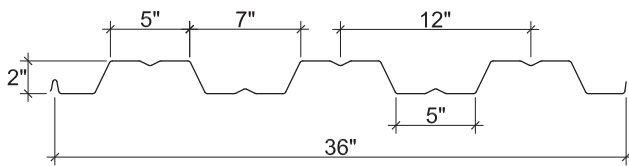


2C-36 NON-COMPOSITE DECK GRADE 50 STEEL

ASD



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		Allowable Moment		Vertical Web Shear V_n/Ω (lb/ft)
				I_{d+} (in ⁴ /ft)	I_{d-} (in ⁴ /ft)	S_{e+} (in ³ /ft)	S_{e-} (in ³ /ft)	M_{n+}/Ω (lb-ft/ft)	M_{n-}/Ω (lb-ft/ft)	
22	1.6	0.0295	50	0.324	0.324	0.244	0.255	609	637	1641
20	1.9	0.0358	50	0.409	0.407	0.326	0.337	813	841	2419
18	2.5	0.0474	50	0.557	0.557	0.485	0.500	1210	1247	3240
16	3.2	0.0598	50	0.703	0.703	0.643	0.652	1604	1627	4069

Allowable Reactions at Supports Based on Web Crippling, R_n/Ω (lb/ft)

Deck Gage	Bearing Length of Webs											
	One-Flange Loading						Two-Flange Loading					
	End Bearing				Interior Bearing		End Bearing				Interior Bearing	
	1½"	2"	3"	4"	4"	6"	1½"	2"	3"	4"	4"	6"
22	363	399	460	511	767	882	362	390	437	476	924	1071
20	522	571	655	726	1098	1257	554	595	663	721	1342	1550
18	879	959	1092	1205	1843	2095	1013	1082	1198	1296	2292	2631
16	1354	1470	1666	1830	2825	3194	1654	1759	1936	2085	3554	4059

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

2C-36 NON-COMPOSITE DECK GRADE 50 STEEL

ASD

Inward Uniform Allowable Loads, ASD (psf)

Deck Gage	Spans	Criteria	Span (ft-in.)										
			5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"	9'-0"	10'-0"	11'-0"
22	Single	W_n / Ω	195	161	135	115	99	87	76	67	60	49	40
		L/240	170	128	98	77	62	50	41	35	29	21	16
	Double	W_n / Ω	190	159	135	115	100	88	77	69	61	50	41
		L/240	---	---	---	---	---	---	---	---	---	---	38
	Triple	W_n / Ω	231	194	165	142	123	108	95	85	76	62	51
		L/240	---	---	---	---	117	95	78	65	55	40	30
20	Single	W_n / Ω	260	215	181	154	133	116	102	90	80	65	54
		L/240	214	161	124	98	78	64	52	44	37	27	20
	Double	W_n / Ω	254	212	179	154	133	116	103	91	82	66	55
		L/240	---	---	---	---	---	---	---	---	---	64	48
	Triple	W_n / Ω	310	260	221	189	164	144	127	113	101	82	68
		L/240	---	---	---	183	147	119	98	82	69	50	38
18	Single	W_n / Ω	387	320	269	229	198	172	151	134	120	97	80
		L/240	292	219	169	133	106	87	71	59	50	37	27
	Double	W_n / Ω	372	311	264	226	196	172	152	135	120	98	81
		L/240	---	---	---	---	---	---	---	---	---	88	66
	Triple	W_n / Ω	453	380	323	278	242	212	187	167	149	122	101
		L/240	---	---	319	251	201	163	135	112	95	69	52
16	Single	W_n / Ω	513	424	356	304	262	228	201	178	158	128	106
		L/240	369	277	213	168	134	109	90	75	63	46	35
	Double	W_n / Ω	483	404	343	294	255	224	197	175	157	128	106
		L/240	---	---	---	---	---	---	---	---	152	111	83
	Triple	W_n / Ω	587	493	420	361	314	275	243	217	194	158	131
		L/240	---	---	403	317	254	206	170	142	119	87	65

Notes:

1. Table does not account for web crippling. Required bearing should be determined based on specific span conditions.
2. The symbol "---" indicates that the uniform allowable load based on deflection exceeds the allowable load based on stress.

NOTICE: Design defects that could cause injury or death may result from relying on the information in this document without independent verification by a qualified professional. The information in this document is provided "AS IS". Nucor Corporation and its affiliates expressly disclaim: (i) any and all representations, warranties and conditions and (ii) all liability arising out of or related to this document and the information in it.