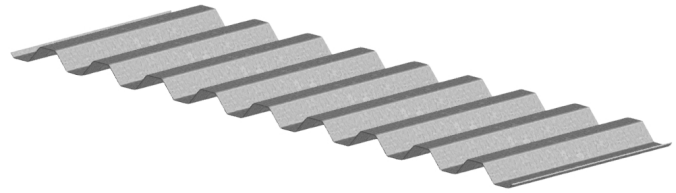
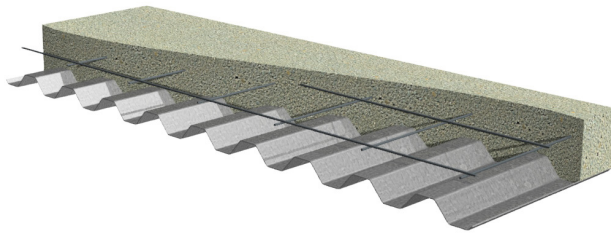
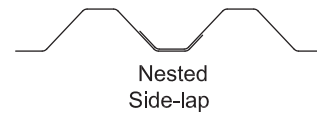
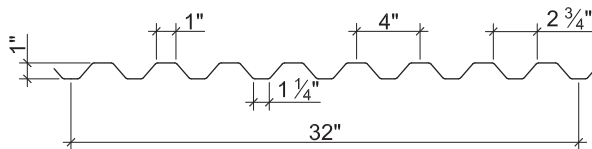


1.0C-32 NON-COMPOSITE & ROOF DECK GRADE 80 STEEL

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 $F_y = 60$ 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)	
26	0.9	0.0179	60	0.041	0.043	0.067	0.071	201	213	1673
24	1.2	0.0239	60	0.057	0.058	0.098	0.103	293	308	2922
22	1.5	0.0295	60	0.071	0.071	0.130	0.134	389	401	3598
20	1.9	0.0358	60	0.090	0.090	0.168	0.166	503	497	4353

Allowable Reactions at Supports Based on Web Crippling, R_n/Ω (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	479	530	617	724	792	906
24	815	899	1039	1250	1361	1547
22	1198	1317	1516	1856	2014	2278
20	1707	1870	2144	2668	2884	3247

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-32 NON-COMPOSITE & ROOF DECK GRADE 80 STEEL

ASD

Inward Uniform Allowable Loads, ASD (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	W_n / Ω	401	257	178	131	100	79	64	53	45	38	33
		L/240	336	172	100	63	42	29	22	16	12	10	8
	Double	W_n / Ω	405	264	185	137	105	83	67	56	47	40	35
		L/240	---	---	---	---	---	75	54	41	31	25	20
	Triple	W_n / Ω	497	325	229	170	131	103	84	70	59	50	43
		L/240	---	---	197	124	83	58	43	32	25	19	16
24	Single	W_n / Ω	587	376	261	192	147	116	94	78	65	56	48
		L/240	467	239	138	87	58	41	30	22	17	14	11
	Double	W_n / Ω	596	386	270	199	153	121	98	81	68	58	50
		L/240	---	---	---	---	143	101	73	55	42	33	27
	Triple	W_n / Ω	735	478	335	248	190	151	122	101	85	73	63
		L/240	---	459	266	167	112	79	57	43	33	26	21
22	Single	W_n / Ω	778	498	346	254	195	154	125	103	86	74	64
		L/240	582	298	172	109	73	51	37	28	22	17	14
	Double	W_n / Ω	773	501	351	259	199	157	128	106	89	76	65
		L/240	---	---	---	---	175	123	90	67	52	41	33
	Triple	W_n / Ω	951	620	435	322	247	196	159	132	111	94	82
		L/240	---	562	325	205	137	96	70	53	41	32	26
20	Single	W_n / Ω	1006	644	447	328	251	199	161	133	112	95	82
		L/240	738	378	219	138	92	65	47	35	27	21	17
	Double	W_n / Ω	956	620	434	320	246	195	158	131	110	94	81
		L/240	---	---	---	---	222	156	114	85	66	52	41
	Triple	W_n / Ω	1175	767	538	398	306	243	197	163	137	117	101
		L/240	---	713	413	260	174	122	89	67	52	41	32

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.