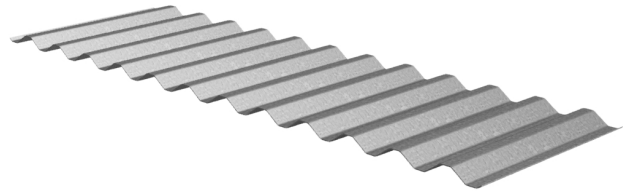
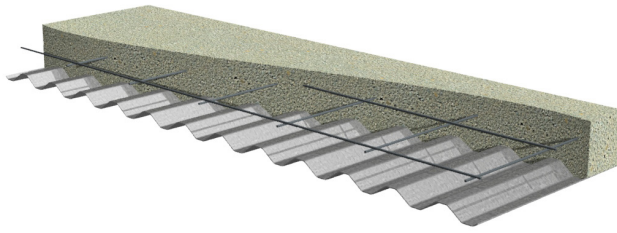
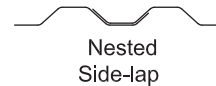
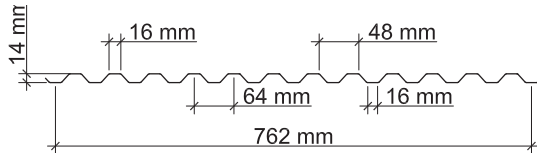


0.6C-30 NON-COMPOSITE & ROOF DECK GRADE 80 STEEL

Metric
LSD



Nominal Dimensions



Section Properties

Deck Gage	Deck Weight w_{dd} (kg/m ²)	Base Metal Thickness t (mm)	Yield Strength F_y (MPa)	Effective Moment of Inertia at Service Load* $I_d = (2I_e + I_y)/3$		Effective Section Modulus* at $F_y = 414$ MPa		Factored Moment*		Vertical Web Shear* ϕV_n (kN)
				I_{d+} (mm ⁴ x10 ³)	I_{d-} (mm ⁴ x10 ³)	S_{e+} (mm ³ x10 ³)	S_{e-} (mm ³ x10 ³)	ϕM_{n+} (N-m)	ϕM_{n-} (N-m)	
28	3.42	0.38	414	15.0	15.0	1.77	1.83	661	681	25
26	4.39	0.46	414	17.8	17.8	2.26	2.26	841	841	30
24	5.86	0.61	414	23.2	23.2	3.01	3.01	1121	1121	39
22	6.83	0.75	414	28.7	28.7	3.71	3.66	1381	1361	48

*Physical Properties per meter (m) of width

Factored Reactions at Supports Based on Web Crippling, ϕR_n (kN/m)

Deck Gage	Bearing Length of Webs (mm)			
	One-Flange Loading			
	End Bearing		Interior Bearing	
	40	50	40	50
28	9.9	10.5	11.0	11.6
26	13.9	14.7	16.2	17.0
24	23.7	24.8	29.3	30.4
22	34.9	36.3	44.5	46.2

Standard Features

- ASTM A653/A653M SS GR80, with Z275/G90 galvanized or ZF75/A25 galvanized
- Standard lengths – 1.83 m to 12.8 m
- Cold-formed steel deck conforms to CAN/CSA S136-16 and meets the guidelines of CSSBI 10M-2018.

Optional Features

- Inquire regarding cost and lead times for:
 - Short cuts < 1.83 m
 - Sheet Lengths > 12.8 m
 - Alternative metallic and painted finishes
- Side-lap or bottom flange slot venting

0.6C-30 NON-COMPOSITE & ROOF DECK GRADE 80 STEEL

Metric
LSD

Inward Uniform Factored Loads, LSD (kPa)

Deck Gage	Spans	Criteria	Span (mm)										
			300	450	600	750	900	1050	1200	1350	1500	1650	1800
28	Single	ϕW_n	58.9	26.2	14.7	9.4	6.5	4.8	3.7	2.9	2.4	1.9	1.6
		L/240	36.3	10.8	4.5	2.3	1.3	0.8	0.6	0.4	0.3	0.2	0.2
	Double	ϕW_n	55.1	25.8	14.8	9.5	6.7	4.9	3.8	3.0	2.4	2.0	1.7
		L/240	87.4	25.9	10.9	5.6	3.2	2.0	1.4	1.0	0.7	0.5	0.4
	Triple	ϕW_n	66.4	31.6	18.3	11.8	8.3	6.1	4.7	3.7	3.0	2.5	2.1
		L/240	68.5	20.3	8.6	4.4	2.5	1.6	1.1	0.8	0.5	0.4	0.3
26	Single	ϕW_n	74.9	33.3	18.7	12.0	8.3	6.1	4.7	3.7	3.0	2.5	2.1
		L/240	42.9	12.7	5.4	2.7	1.6	1.0	0.7	0.5	0.3	0.3	0.2
	Double	ϕW_n	67.7	31.8	18.2	11.8	8.2	6.1	4.7	3.7	3.0	2.5	2.1
		L/240	103.3	30.6	12.9	6.6	3.8	2.4	1.6	1.1	0.8	0.6	0.5
	Triple	ϕW_n	81.5	38.9	22.5	14.6	10.2	7.5	5.8	4.6	3.7	3.1	2.6
		L/240	81.0	24.0	10.1	5.2	3.0	1.9	1.3	0.9	0.6	0.5	0.4
24	Single	ϕW_n	99.9	44.4	25.0	16.0	11.1	8.2	6.2	4.9	4.0	3.3	2.8
		L/240	56.1	16.6	7.0	3.6	2.1	1.3	0.9	0.6	0.4	0.3	0.3
	Double	ϕW_n	90.2	42.3	24.3	15.7	11.0	8.1	6.2	4.9	4.0	3.3	2.8
		L/240	135.1	40.0	16.9	8.6	5.0	3.2	2.1	1.5	1.1	0.8	0.6
	Triple	ϕW_n	108.5	51.9	30.0	19.5	13.6	10.1	7.7	6.1	5.0	4.1	3.5
		L/240	105.9	31.4	13.2	6.8	3.9	2.5	1.7	1.2	0.8	0.6	0.5
22	Single	ϕW_n	123.1	54.7	30.8	19.7	13.7	10.0	7.7	6.1	4.9	4.1	3.4
		L/240	69.3	20.5	8.7	4.4	2.6	1.6	1.1	0.8	0.6	0.4	0.3
	Double	ϕW_n	109.8	51.4	29.5	19.1	13.3	9.8	7.5	6.0	4.8	4.0	3.4
		L/240	166.9	49.5	20.9	10.7	6.2	3.9	2.6	1.8	1.3	1.0	0.8
	Triple	ϕW_n	132.1	63.1	36.5	23.7	16.6	12.2	9.4	7.4	6.0	5.0	4.2
		L/240	130.8	38.8	16.4	8.4	4.8	3.1	2.0	1.4	1.0	0.8	0.6

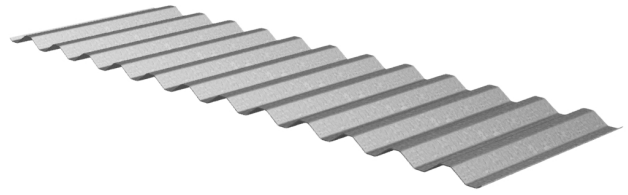
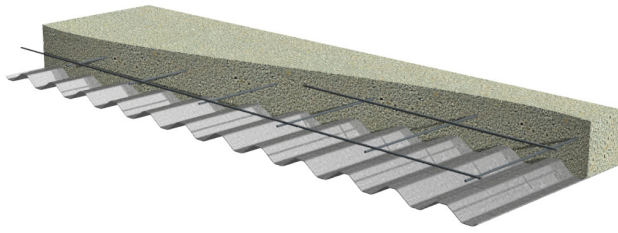
Note:

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

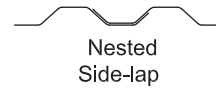
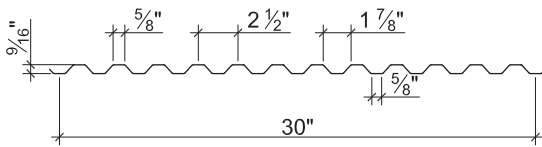
NOTICE: Design defects that could cause injury or death may result from relying on the information in this document without independent verification by a qualified professional. The information in this document is provided "AS IS". Nucor Corporation and its affiliates expressly disclaim: (i) any and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

0.6C-30 NON-COMPOSITE & ROOF DECK GRADE 80 STEEL

Imperial
LSD



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		Factored 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)	
28	0.7	0.0149	60	0.011	0.011	0.033	0.034	149	153	1698
26	0.9	0.0179	60	0.013	0.013	0.042	0.042	189	189	2034
24	1.2	0.0239	60	0.017	0.017	0.056	0.056	252	252	2697
22	1.4	0.0295	60	0.021	0.021	0.069	0.068	311	306	3307

Factored 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"	1 1/2"	2"
28	667	717	745	793
26	938	1004	1095	1162
24	1599	1701	1977	2086
22	2352	2489	3012	3162

Standard Features

- ASTM A653/A653M SS GR80, with Z275/G90 galvanized or ZF75/A25 galvanized
- Standard lengths – 6'-0" to 42'-0"
- Cold-formed steel deck conforms to CAN/CSA S136-16 and meets the guidelines of CSSBI 10M-2018.

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

0.6C-30 NON-COMPOSITE & ROOF DECK GRADE 80 STEEL

Imperial
LSD

Inward Uniform Factored Loads, LSD (psf)

Deck Gage	Spans	Criteria	Span (ft-in.)										
			1'-0"	1'-6"	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"
28	Single	ϕW_n	1188	528	297	190	132	97	74	59	48	39	33
		L/240	721	214	90	46	27	17	11	8	6	4	3
	Double	ϕW_n	1116	521	299	193	134	99	76	60	49	40	34
		L/240	1737	515	217	111	64	41	27	19	14	10	8
	Triple	ϕW_n	1346	640	369	239	167	123	95	75	61	50	42
		L/240	1361	403	170	87	50	32	21	15	11	8	6
26	Single	ϕW_n	1512	672	378	242	168	123	95	75	60	50	42
		L/240	852	253	107	55	32	20	13	9	7	5	4
	Double	ϕW_n	1371	642	368	238	166	122	94	74	60	50	42
		L/240	2053	608	257	131	76	48	32	23	16	12	10
	Triple	ϕW_n	1651	787	455	295	206	152	117	93	75	62	52
		L/240	1609	477	201	103	60	38	25	18	13	10	7
24	Single	ϕW_n	2016	896	504	323	224	165	126	100	81	67	56
		L/240	1114	330	139	71	41	26	17	12	9	7	5
	Double	ϕW_n	1826	855	491	317	221	163	125	99	80	66	56
		L/240	2685	795	336	172	99	63	42	29	21	16	12
	Triple	ϕW_n	2198	1049	607	393	275	203	156	123	100	83	70
		L/240	2104	623	263	135	78	49	33	23	17	13	10
22	Single	ϕW_n	2484	1104	621	397	276	203	155	123	99	82	69
		L/240	1377	408	172	88	51	32	22	15	11	8	6
	Double	ϕW_n	2222	1040	596	385	269	198	152	120	98	81	68
		L/240	3316	983	415	212	123	77	52	36	27	20	15
	Triple	ϕW_n	2675	1275	737	478	334	247	189	150	122	101	85
		L/240	2599	770	325	166	96	61	41	29	21	16	12

Note:

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

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.