

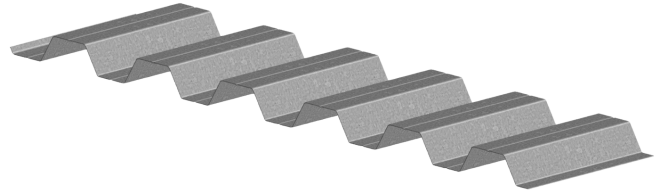
2N-48 ROOF DECKS

A653 GALVANIZED STEEL

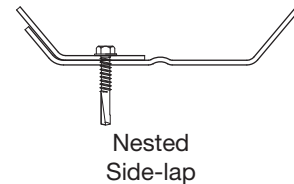
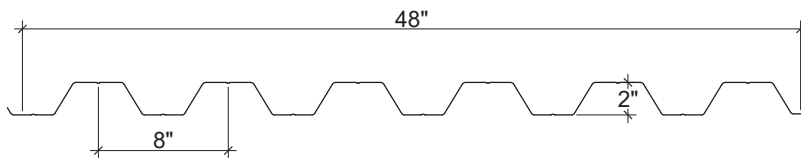
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N ROOF DECKS

- 2N-48 Deck used with Side-lap Screws



Nominal Dimensions



Section Properties

Deck Gage	Base Metal Thickness	Yield Strength	Moment of Inertia at Deflection $I_d = (2I_e + I_g)/3$		Effective Section Modulus at F_y		Allowable Moment		Vertical Web Shear
	t (in.)	F_y (ksi)	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)	V_n/Ω (lb/ft)
22	0.0299	72	0.297	0.301	0.230	0.231	828	831	2686
20	0.0359	72	0.367	0.370	0.294	0.293	1054	1053	3834
18	0.0478	72	0.508	0.508	0.432	0.426	1551	1530	6341
16	0.0598	50	0.649	0.644	0.617	0.591	1540	1475	6008

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"	3"	5"	1½"	2"	3"	4"	3"	5"
22	760	835	961	1067	1469	1738	758	816	914	996	1753	2099
20	1070	1173	1344	1488	2068	2434	1134	1217	1357	1475	2504	2983
18	1823	1987	2263	2496	3520	4108	2099	2241	2480	2683	4339	5127
16	1920	2086	2362	2597	3706	4295	2340	2489	2739	2950	4619	5423

Standard Features

- ASTM A653 SS GR80 Class 3 for 22, 20 & 18 gage
- ASTM A653 SS GR50 for 16 gage
- Standard lengths – 6'-0" to 40'-0"
- Galvanized G60 or G90 and galvanized with optional white primer
- IAPMO UES ER-2018 and FM Listed

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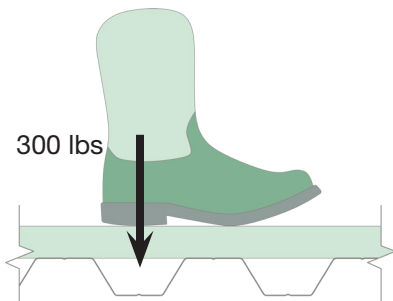
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Inward Uniform Allowable Loads, ASD (psf)

Deck Gage	Spans	Criteria	Span (ft-in.)								
			8'-0"	8'-6"	9'-0"	9'-6"	10'-0"	10'-6"	11'-0"	11'-6"	12'-0"
22	Single	W_n / Ω	104	92	82	73	66	60	55	50	46
		L/180	51	42	36	30	26	22	19	17	15
	Double	W_n / Ω	102	91	81	73	66	60	54	50	46
		L/180	124	103	87	74	63	55	48	42	37
	Triple	W_n / Ω	126	112	100	90	82	74	68	62	57
		L/180	97	81	68	58	50	43	37	33	29
20	Single	W_n / Ω	132	117	104	93	84	76	70	64	59
		L/180	63	52	44	37	32	28	24	21	19
	Double	W_n / Ω	130	115	103	92	83	76	69	63	58
		L/180	152	127	107	91	78	67	59	51	45
	Triple	W_n / Ω	161	143	128	115	104	94	86	79	72
		L/180	119	99	84	71	61	53	46	40	35
18	Single	W_n / Ω	194	172	153	137	124	113	103	94	86
		L/180	87	72	61	52	44	38	33	29	26
	Double	W_n / Ω	189	168	150	135	122	110	101	92	85
		L/180	209	174	147	125	107	92	80	70	62
	Triple	W_n / Ω	235	209	186	168	151	137	125	115	105
		L/180	164	137	115	98	84	72	63	55	48
16	Single	W_n / Ω	193	171	152	137	123	112	102	93	86
		L/180	111	92	78	66	57	49	43	37	33
	Double	W_n / Ω	182	162	144	130	117	106	97	89	82
		L/180	265	221	186	158	136	117	102	89	78
	Triple	W_n / Ω	227	201	180	162	146	132	121	111	102
		L/180	207	173	146	124	106	92	80	70	61

Notes:

1. End bearing length = 2 in. Interior bearing length = 4 in.



1 inch minimum thickness polyisocyanurate board meeting
ASTM C1289 Type II Class 2 Grade 2 passes
FM Procedure Class Number-4451: Test Method for Determining the Foot
Traffic Resistance and Bearing Capacity of Insulation

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