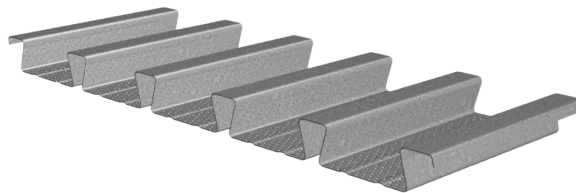


2.0DS-30 AC ACOUSTICAL DOVETAIL ROOF DECK GRADE 50 STEEL

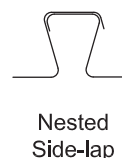
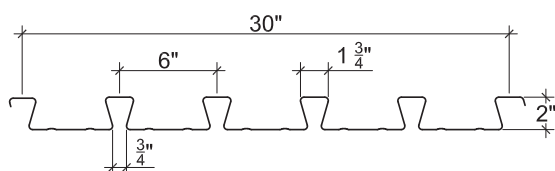
ASD

2.0DS-30 AC DOVETAIL ROOF DECK

- Enhanced 2-Coat Polyester Paint
- White Factory Primer Paint
- Galvanized Finish
- FM Listed



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)	$M_n + \Omega$ (lb-ft/ft)	$M_n - \Omega$ (lb-ft/ft)	
22	2.1	0.0299	50	0.370	0.331	0.281	0.252	701	629	3334
20	2.5	0.0359	50	0.446	0.417	0.352	0.337	877	841	3978
18	3.4	0.0478	50	0.596	0.600	0.481	0.482	1201	1204	5229
16	4.3	0.0598	50	0.765	0.793	0.617	0.624	1540	1557	6455

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	833	916	1054	1171	1557 1794	859	926	1037	1130	1905 2217
20	1166	1278	1465	1622	2186 2503	1272	1366	1523	1655	2706 3130
18	1970	2148	2446	2698	3707 4201	2322	2480	2745	2968	4656 5331
16	2964	3218	3646	4007	5590 6279	3684	3919	4313	4646	7085 8040

Standard Features

- ASTM A653 SS GR 50 Min. with G90
- Standard lengths – 6'-0" to 40'-0"
- Tables conform to ANSI/SDI RD-2017
- IAPMO UES ER-423 and FM Listed

Optional Features

- Inquire regarding cost and lead times for:
 - 21, 19 or 17 gage
 - Alternative metallic and painted finishes

2.0DS-30 AC ACOUSTICAL DOVETAIL ROOF DECK GRADE 50 STEEL

ASD

Inward Uniform Allowable Loads, ASD (psf)

Deck Gage	Spans	Criteria	Span (ft-in.)										
			4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"
22	Single	W_n / Ω	350	224	156	114	88	69	56	46	39	33	29
		L/240	---	194	112	71	47	33	24	18	14	11	9
	Double	W_n / Ω	306	198	138	102	78	62	50	41	35	30	26
		L/240	---	---	---	---	---	---	---	39	30	24	19
	Triple	W_n / Ω	378	245	172	127	97	77	62	52	43	37	
		L/240	---	---	---	119	80	56	41	31	24	19	
20	Single	W_n / Ω	439	281	195	143	110	87	70	58	49	42	36
		L/240	---	234	135	85	57	40	29	22	17	13	11
	Double	W_n / Ω	407	263	184	136	104	83	67	55	47	40	34
		L/240	---	---	---	---	---	---	66	49	38	30	24
	Triple	W_n / Ω	501	326	229	169	130	103	83	69	58	50	
		L/240	---	---	---	150	101	71	52	39	30	23	
18	Single	W_n / Ω	601	384	267	196	150	119	96	79	67	57	49
		L/240	---	313	181	114	76	54	39	29	23	18	14
	Double	W_n / Ω	578	375	263	194	149	118	96	79	67	57	49
		L/240	---	---	---	---	---	---	95	71	55	43	35
	Triple	W_n / Ω	711	464	326	241	185	147	119	99	83	71	
		L/240	---	---	---	217	145	102	74	56	43	34	
16	Single	W_n / Ω	770	493	342	251	193	152	123	102	86	73	63
		L/240	---	401	232	146	98	69	50	38	29	23	18
	Double	W_n / Ω	745	484	339	250	192	152	124	102	86	73	63
		L/240	---	---	---	---	---	---	---	94	72	57	46
	Triple	W_n / Ω	915	598	420	311	239	190	154	128	107	92	
		L/240	---	---	---	286	192	135	98	74	57	45	

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.

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