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

ASD

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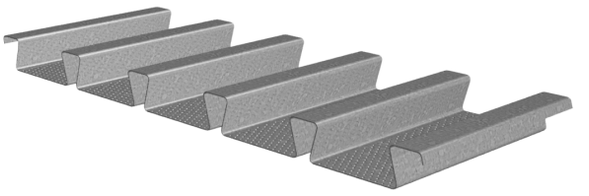
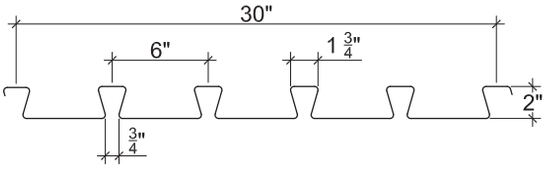
- **Enhanced 2-Coat Polyester Paint**
- **White Factory Primer Paint**
- **Galvanized Finish**
- **FM Listed**



Nominal Dimensions



Nested
Side-lap

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 $I_d = (2I_e+I_g)/3$ I_d+ (in⁴/ft)	I_d- (in⁴/ft)	Effective Section Modulus at F_y = 50 ksi S_e+ (in³/ft)	S_e- (in³/ft)	Allowable Moment M_n+/Ω (lb-ft/ft)	M_n-/Ω (lb-ft/ft)	Vertical Web Shear V_n/Ω (lb/ft)
20	2.5	0.0359	50	0.449	0.431	0.353	0.306	881	763	3978
18	3.4	0.0478	50	0.599	0.600	0.483	0.469	1206	1169	5229
16	4.2	0.0598	50	0.752	0.774	0.608	0.614	1517	1532	6455

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

Deck Gage	Bearing Length of Webs: One-Flange Loading, End Bearing 1½"	2"	3"	4"	Interior Bearing 3"	5"	Two-Flange Loading, End Bearing 1½"	2"	3"	4"	Interior Bearing 3"	5"
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:
  -22, 21, 19 or 17 gage
  -Alternative metallic and painted finishes

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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"
20	Single	W_n / Ω	440	282	196	144	110	87	70	58	49	42	36
		L/240	---	235	136	86	57	40	29	22	17	13	11
	Double	W_n / Ω	371	240	168	123	95	75	61	50	42	36	31
		L/240	---	---	---	---	---	---	---	---	39	31	25
	Triple	W_n / Ω	459	298	208	154	118	93	76	63	53	45	
		L/240	---	---	---	---	104	73	53	40	31	24	
18	Single	W_n / Ω	603	386	268	197	151	119	96	80	67	57	49
		L/240	---	314	182	114	77	54	39	30	23	18	14
	Double	W_n / Ω	563	365	255	189	145	115	93	77	65	55	48
		L/240	---	---	---	---	---	---	---	71	55	43	35
	Triple	W_n / Ω	693	452	317	234	180	143	116	96	81	69	
		L/240	---	---	---	217	145	102	74	56	43	34	
16	Single	W_n / Ω	759	486	337	248	190	150	121	100	84	72	62
		L/240	---	394	228	144	96	68	49	37	29	22	18
	Double	W_n / Ω	735	477	334	247	189	150	122	101	85	72	62
		L/240	---	---	---	---	---	---	---	92	71	56	45
	Triple	W_n / Ω	902	589	414	306	236	187	152	126	106	90	
		L/240	---	---	---	279	187	131	96	72	55	44	

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.