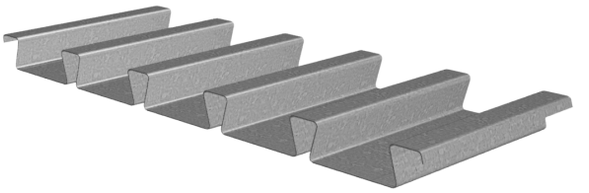
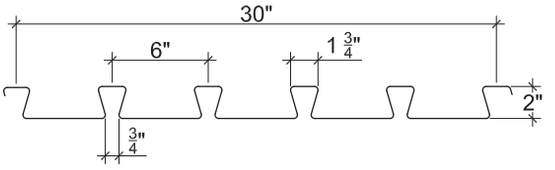
2.0DF-30 DOVETAIL ROOF DECK

- **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	2.7	0.0359	50	0.524	0.468	0.380	0.344	947	859	3978
18	3.6	0.0478	50	0.699	0.660	0.530	0.491	1322	1225	5229
16	4.5	0.0598	50	0.877	0.857	0.670	0.632	1673	1576	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, FM and UL Listed

Optional Features

- Inquire regarding cost and lead times for:
  - -22, 21, 19 or 17 gage
  - -Alternative metallic and painted finishes
- Acoustical Version

2.0DF-30 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"
20	Single	W_n / Ω	474	303	211	155	118	94	76	63	53	45	39
		L/240	---	275	159	100	67	47	34	26	20	16	13
	Double	W_n / Ω	415	269	188	139	106	84	68	57	48	41	35
		L/240	---	---	---	---	---	---	---	56	43	34	27
	Triple	W_n / Ω	511	333	233	172	132	105	85	70	59	51	
		L/240	---	---	---	169	113	79	58	44	34	26	
18	Single	W_n / Ω	661	423	294	216	165	131	106	87	73	63	54
		L/240	---	367	212	134	89	63	46	34	27	21	17
	Double	W_n / Ω	588	382	267	197	151	120	97	81	68	58	50
		L/240	---	---	---	---	---	---	---	78	60	47	38
	Triple	W_n / Ω	722	472	331	245	189	149	121	100	84	72	
		L/240	---	---	---	238	160	112	82	61	47	37	
16	Single	W_n / Ω	836	535	372	273	209	165	134	111	93	79	68
		L/240	---	460	266	168	112	79	57	43	33	26	21
	Double	W_n / Ω	754	490	343	253	195	154	125	104	87	74	64
		L/240	---	---	---	---	---	---	---	102	78	62	49
	Triple	W_n / Ω	925	605	425	315	242	192	156	129	109	93	
		L/240	---	---	---	309	207	146	106	80	61	48	

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.