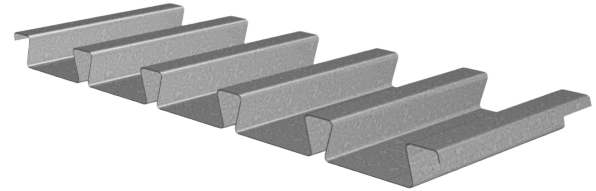


2.0DF-30 DOVETAIL ROOF DECK GRADE 50 STEEL

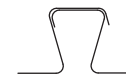
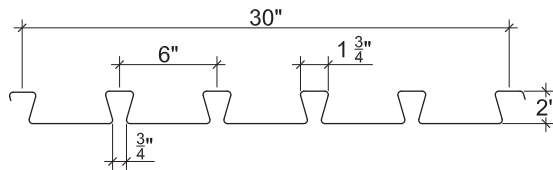
LRFD

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 $I_d = (2I_e + I_o)/3$		Effective Section Modulus at $F_y = 50$ ksi		Design 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)	
20	2.7	0.0359	50	0.524	0.468	0.380	0.344	1424	1291	6047
18	3.6	0.0478	50	0.699	0.660	0.530	0.491	1987	1841	7949
16	4.5	0.0598	50	0.877	0.857	0.670	0.632	2514	2369	9812

Design Reactions at Supports Based on Web Crippling, ϕR_n (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"
20	1785	1955	2241	2482	3252	3724	1946	2090	2330	2532	4025	4656
18	3014	3286	3743	4127	5514	6249	3553	3794	4200	4541	6926	7930
16	4534	4924	5578	6130	8315	9340	5637	5996	6599	7108	10538	11960

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

LRFD

Inward Uniform Design Loads, LRFD (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	ϕW_n	712	456	316	233	178	141	114	94	79	67	58
		L/240	537	275	159	100	67	47	34	26	20	16	13
	Double	ϕW_n	624	404	282	208	160	127	103	85	71	61	53
		L/240	1155	591	342	215	144	101	74	56	43	34	27
	Triple	ϕW_n	768	500	351	259	199	158	128	106	89	76	
		L/240	905	463	268	169	113	79	58	44	34	26	
18	Single	ϕW_n	994	636	442	324	248	196	159	131	110	94	81
		L/240	716	367	212	134	89	63	46	34	27	21	17
	Double	ϕW_n	884	574	402	297	228	180	146	121	102	87	75
		L/240	1628	834	483	304	204	143	104	78	60	47	38
	Triple	ϕW_n	1087	710	498	369	283	225	182	151	127	108	
		L/240	1276	654	378	238	160	112	82	61	47	37	
16	Single	ϕW_n	1257	804	559	410	314	248	201	166	140	119	103
		L/240	898	460	266	168	112	79	57	43	33	26	21
	Double	ϕW_n	1134	737	516	381	293	232	188	156	131	112	96
		L/240	2115	1083	627	395	264	186	135	102	78	62	49
	Triple	ϕW_n	1392	910	640	473	364	289	234	194	163	139	
		L/240	1657	849	491	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.

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