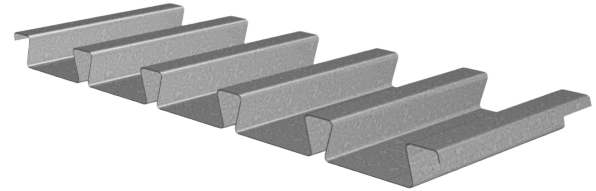


# 2.0DF-30 DOVETAIL ROOF DECK GRADE 50 STEEL

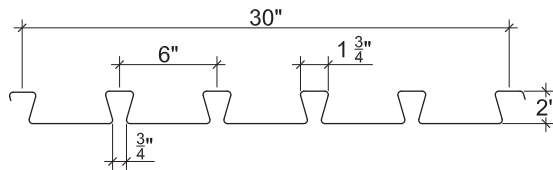
Imperial  
LSD

## 2.0DF-30 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 $I_d = (2I_e + I_o)/3$		Effective Section Modulus at $F_y = 50$ ksi		Factored Moment		Vertical Web Shear $\phi V_n$ (lb/ft)
				$I_{d+}$ (in <sup>4</sup> /ft)	$I_{d-}$ (in <sup>4</sup> /ft)	$S_{e+}$ (in <sup>3</sup> /ft)	$S_{e-}$ (in <sup>3</sup> /ft)	$\phi M_{n+}$ (lb-ft/ft)	$\phi M_{n-}$ (lb-ft/ft)	
20	2.7	0.0359	50	0.524	0.468	0.380	0.344	1424	1291	5092
18	3.6	0.0478	50	0.699	0.660	0.530	0.491	1987	1841	6694
16	4.5	0.0598	50	0.877	0.857	0.670	0.632	2514	2369	8262

## Factored Reactions at Supports Based on Web Crippling, $\phi R_n$ (lb/ft)

Deck Gage	Bearing Length of Webs											
	One-Flange Loading					Two-Flange Loading						
	End Bearing				Interior Bearing	End Bearing				Interior Bearing		
	1 1/2"	2"	3"	4"	3"	5"	1 1/2"	2"	3"	4"	3"	5"
20	1586	1738	1992	2206	2869	3286	1603	1721	1918	2085	3551	4108
18	2679	2921	3327	3669	4866	5514	2926	3125	3459	3740	6112	6997
16	4030	4377	4959	5449	7337	8241	4642	4938	5435	5853	9299	10553

## Standard Features

- ASTM A653/A653M SS GR50 Min., with Z275/G90 galvanized
- Standard lengths – 6'-0" to 40'-0"
- UL and FM Listed
- Cold-formed steel deck conforms to CAN/CSA S136-16 and meets the guidelines of CSSBI 10M-2018.

## Optional Features

- Inquire regarding cost and lead times for:
  - 19 or 17 gage
  - Alternative metallic and painted finishes
- Perforated Acoustical Versions

# 2.0DF-30 DOVETAIL ROOF DECK GRADE 50 STEEL

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## Inward Uniform Factored Loads, LSD (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	$\phi W_n$	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	$\phi W_n$	615	400	281	207	159	126	102	85	71	61	52
		L/240	1155	591	342	215	144	101	74	56	43	34	27
	Triple	$\phi W_n$	754	494	348	257	198	157	128	106	89	76	
		L/240	905	463	268	169	113	79	58	44	34	26	
18	Single	$\phi W_n$	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	$\phi W_n$	871	568	399	295	227	180	146	121	102	87	75
		L/240	1628	834	483	304	204	143	104	78	60	47	38
	Triple	$\phi W_n$	1064	699	493	366	282	224	182	150	127	108	
		L/240	1276	654	378	238	160	112	82	61	47	37	
16	Single	$\phi W_n$	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	$\phi W_n$	1115	729	512	379	291	231	188	155	131	111	96
		L/240	2115	1083	627	395	264	186	135	102	78	62	49
	Triple	$\phi W_n$	1360	896	632	469	362	287	233	193	163	139	
		L/240	1657	849	491	309	207	146	106	80	61	48	

**Note:**

1. Table does not account for web crippling. Required bearing should be determined based on specific span conditions.