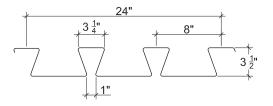
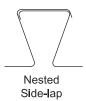
# 3.5DF-24 DOVETAIL ROOF DECK

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

### **Nominal Dimensions**







### **Section Properties**

	Deck Weight	Base Metal Thickness	Yield Strength	of In at Servi	Moment ertia ce Load l <sub>e</sub> +l <sub>g</sub> )/3		ctive Modulus 50 ksi	Allov Mor	Vertical Web Shear	
Deck	$\mathbf{w}_{dd}$	t	F <sub>y</sub>	<b>І</b> <sub>d</sub> +	I <sub>d</sub> -	S <sub>e</sub> +	S <sub>e</sub> -	<b>Μ</b> <sub>n</sub> +/Ω	<b>Μ</b> /Ω	<b>V</b> <sub>n</sub> /Ω
Gage	(psf)	(in.)	(ksi)	(in⁴/ft)	(in⁴/ft)	(in³/ft)	(in³/ft)	(lb-ft/ft)	(lb-ft/ft)	(lb/ft)
18	4.5	0.0478	50	2.688	2.496	1.055	0.935	2633	2333	6813
16	5.6	0.0598	50	3.430	3.256	1.417	1.289	3536	3217	9781

## Allowable Reactions at Supports Based on Web Crippling, R<sub>\_</sub>/Ω (lb/ft)

	Bearing Length of Webs													
	One-Flange Loading							Two-Flange Loading						
Deck		End B	earing		Interior Bearing			End B	Interior Bearing					
Gage	2"	3"	4"	5"	4"	6"	2"	3"	4"	5"	4"	6"		
18	1465	1668	1840	1991	2933	3334	1592	1762	1905	2031	3542	4066		
16	2217	2512	2760	2979	4415	4992	2565	2823	3040	3232	5411	6179		

## 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:
  - -17 gage
  - -Short cuts < 6'-0"
  - -Alternative metallic and painted finishes
- Acoustical Version



#### Inward Uniform Allowable Loads, ASD (psf)

Deck		Span (ft-in.)											
Gage	Spans	Criteria	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"
18	Single	W <sub>n</sub> / Ω	174	146	125	107	94	82	73	65	58	53	48
		L/240	132	102	80	64	52	43	36	30	26	22	19
	Double	W <sub>n</sub> / Ω	152	128	110	95	82	73	64	57	51	46	
		L/240											
	Triple	W <sub>n</sub> / Ω	190	160	136								
		L/240											
16	Single	W <sub>n</sub> /Ω	234	196	167	144	126	110	98	87	78	71	64
		L/240	169	130	102	82	67	55	46	39	33	28	24
	Double	W <sub>n</sub> / Ω	210	177	151	130	114	100	89	79	71	64	
		L/240											
	Triple	W <sub>n</sub> /Ω	262	220	188								
		L/240			183								

#### 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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