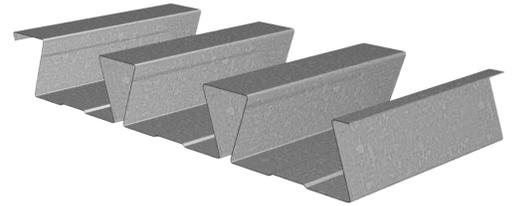


3.5D DOVETAIL ROOF DECK GRADE 40 STEEL

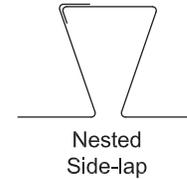
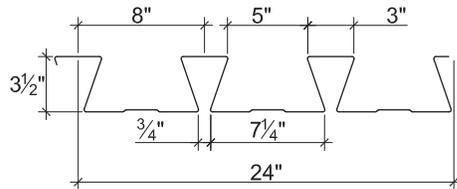
ASD

3.5D 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 $I_d = (2I_e + I_g)/3$		Effective Section Modulus at $F_y = 40$ ksi		Allowable Moment		Vertical Web Shear V_n/Ω (lb/ft)
				I_{d+} (in ⁴ /ft)	I_{d-} (in ⁴ /ft)	S_{e+} (in ³ /ft)	S_{e-} (in ³ /ft)	M_{n+}/Ω (lb-ft/ft)	M_{n-}/Ω (lb-ft/ft)	
20	3.3	0.0358	40	1.762	1.646	0.676	0.781	1349	1559	3435
18	4.3	0.0474	40	2.415	2.272	0.980	1.070	1956	2136	6012
16	5.4	0.0598	40	3.133	2.968	1.317	1.377	2629	2749	8313

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

Deck Gage	Bearing Length of Webs											
	One-Flange Loading					Two-Flange Loading						
	End Bearing		Interior Bearing			End Bearing				Interior Bearing		
	2"	3"	4"	5"	4"	6"	2"	3"	4"	5"	4"	6"
20	693	794	880	955	1459	1670	714	796	865	926	1724	1991
18	1168	1330	1467	1588	2422	2753	1310	1450	1568	1672	2927	3360
16	1793	2032	2233	2410	3681	4162	2137	2352	2533	2693	4515	5157

Standard Features

- ASTM A653 SS GR 40 Min. with G90
- Standard lengths – 6'-0" to 42'-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:
 - 19 gage
 - Short cuts < 6'-0"
 - Alternative metallic and painted finishes
- Acoustical Version

3.5D DOVETAIL ROOF DECK GRADE 40 STEEL

Inward Uniform Allowable Loads, ASD (psf)

Deck Gage	Spans	Criteria	Span (ft-in.)										
			11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"
20	Single	W_n / Ω	89	75	64	55	48	42	37	33	30	27	24
		L/240	87	67	53	42	34	28	24	20	17	14	12
	Double	W_n / Ω	101	85	73	63	55	48	43	38	34	31	28
		L/240	---	---	---	---	---	---	---	---	---	---	28
	Triple	W_n / Ω	125	106	90	78							
		L/240	---	---	---	74							
18	Single	W_n / Ω	129	109	93	80	70	61	54	48	43	39	35
		L/240	119	92	72	58	47	39	32	27	23	20	17
	Double	W_n / Ω	139	117	100	86	75	66	59	52	47	43	39
		L/240	---	---	---	---	---	---	---	---	---	---	---
	Triple	W_n / Ω	173	146	125	108							
		L/240	---	---	---	102							
16	Single	W_n / Ω	174	146	124	107	93	82	73	65	58	53	48
		L/240	154	119	93	75	61	50	42	35	30	26	22
	Double	W_n / Ω	180	151	129	111	97	85	76	68	61	55	50
		L/240	---	---	---	---	---	---	---	---	---	---	---
	Triple	W_n / Ω	224	188	161	139							
		L/240	---	---	---	134							

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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