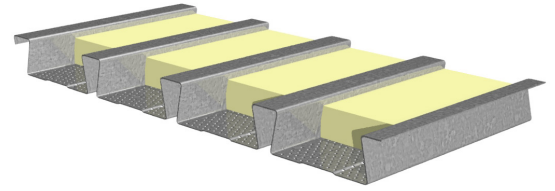


2.0DA ACOUSTICAL DOVETAIL ROOF DECK GRADE 40 STEEL

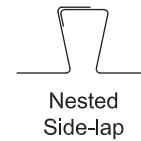
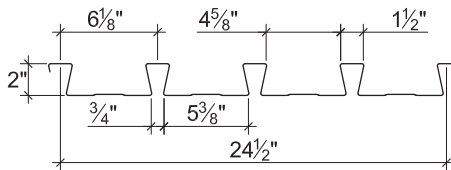
ASD

2.0DA ACOUSTICAL 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 $I_d = (2I_e + I_p)/3$		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)	
22	2.0	0.0295	40	0.340	0.310	0.261	0.258	521	515	2896
20	2.4	0.0358	40	0.415	0.385	0.330	0.317	659	633	3498
18	3.2	0.0474	40	0.551	0.528	0.445	0.427	888	852	4584
16	4.0	0.0598	40	0.697	0.684	0.564	0.546	1126	1090	5723

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	
	1 1/2"	2"	3"	4"	3"	5"	1 1/2"	2"	3"	4"	3"	5"
22	653	717	826	917	1281	1516	702	757	848	925	1567	1877
20	931	1020	1170	1296	1823	2146	1058	1136	1266	1376	2258	2690
18	1556	1697	1933	2132	3036	3544	1893	2023	2239	2422	3813	4507
16	2378	2582	2926	3215	4629	5360	3043	3237	3563	3837	5866	6880

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 and FM Listed

Optional Features

- Inquire regarding cost and lead times for:
 - 19 gage
 - Short cuts < 6'-0"
 - Alternative metallic and painted finishes

2.0DA ACOUSTICAL DOVETAIL ROOF DECK GRADE 40 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"
22	Single	W_n / Ω	260	167	116	85	65	51	42	34	29	25	21
		L/240	---	---	103	65	44	31	22	17	13	10	8
	Double	W_n / Ω	251	162	113	83	64	51	41	34	29	24	21
		L/240	---	---	---	---	---	---	---	---	28	22	18
	Triple	W_n / Ω	311	201	141	104	80	63	51	42	36	30	26
		L/240	---	---	---	---	75	53	38	29	22	17	14
20	Single	W_n / Ω	329	211	146	108	82	65	53	44	37	31	27
		L/240	---	---	126	79	53	37	27	20	16	12	10
	Double	W_n / Ω	309	199	139	102	79	62	50	42	35	30	26
		L/240	---	---	---	---	---	---	---	---	---	28	22
	Triple	W_n / Ω	382	247	173	128	98	78	63	52	44	37	32
		L/240	---	---	---	---	93	65	48	36	28	22	17
18	Single	W_n / Ω	444	284	197	145	111	88	71	59	49	42	36
		L/240	---	---	167	105	71	50	36	27	21	16	13
	Double	W_n / Ω	415	268	187	138	106	84	68	56	47	40	35
		L/240	---	---	---	---	---	---	---	---	---	38	30
	Triple	W_n / Ω	513	333	233	172	132	104	85	70	59	50	43
		L/240	---	---	---	---	128	90	65	49	38	30	24
16	Single	W_n / Ω	563	360	250	184	141	111	90	74	63	53	46
		L/240	---	---	212	133	89	63	46	34	26	21	17
	Double	W_n / Ω	530	343	239	176	135	107	87	72	60	51	44
		L/240	---	---	---	---	---	---	---	---	---	49	39
	Triple	W_n / Ω	655	425	297	220	169	133	108	90	75	64	55
		L/240	---	---	---	---	165	116	85	64	49	39	31

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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